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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

February 11, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

January narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the entire month at the office carrying on routine interpretive activities and forwarding the projects of the Southwestern Monuments Association. Effective January 1, his status was reallocated to that of Associate Naturalist.

Archeologist Steen remained at Casa Grande National Monument where he completed preparation and installation of temporary exhibits in the Monument Museum. He was able to get a ruins stabilization project well under way, and anticipates that it will be completed about February 15. He prepared and submitted PCP sheets for permanent exhibits planned for the Casa Grande Museum. Steen took six days' annual leave during the report month.

In general, interpretive activities were kept current. Information was supplied in response to a number of requests, supplies and equipment were made available for field men, forms were prepared, mimeographed, and distributed, the library cataloguing project advanced better than was expected, Southwestern Monuments Association affairs were kept current, and technical aid given to the Director of Region Three in interpretive matters.

Public Relations - Publicity. An article "Army Paradise", prepared by Ranger David Winslow of White Sands National Monument, was published in the January-March issue of National Parks Magazine. An article on Pipe Spring National Monument, one of a series on the National Monuments of Arizona, appeared in the January issue of Arizona Highways Magazine.

Extension Services - Radio Talks. Three reels of 16 millimeter natural color movies were sent to the Superintendent of Boulder Dam National Recreational Area on his request. These reels cover features of the Southwestern National Monuments and will be shown to local groups in Boulder City. One talk was given on the Southwestern National Monuments to 22 members of the Presbyterian Forum in Santa Fe.

Progress of Exhibit Plans and Projects. Project Construction Program proposal sheets on exhibits for Casa Grande National Monument Museum were prepared. Following review, they will be submitted for approval.

Southwestern National Monuments Loan Library. Four hundred and sixty-five books were catalogued, marked, and made ready for shelving. More than one hundred books were accessioned. Lack of stenographic assistance made it necessary

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to send out file cards on these books for typing. Through the kindness of Custodian Caywood, they will be typed by Ranger Mattison of Tumacacori National Monument. Library accessions totaled 47 publications consisting of six books, six pamphlets, three reports, and thirty-two periodicals. More than a day was spent in sorting and organizing publications in the Region Three Library.

Southwestern Monuments Association. Proof sheets were read on the Sunset Crater, Chiricahua, and Wupatki articles and these were O.K.'d for running of reprints. A dummy was prepared for the Tonto article. Only Pipe Spring and Tumacacori remain to complete the reprint series. Consignment account data were assembled for the period ending December 31, 1942, and reports made to the publishers of books on sale on consignment.

Status of Archeological Projects. Ruins stabilization work started at Casa Grande National Monument on January 21 under the supervision of Archeologist Steen. This project has been held up because of inability to secure labor.

Photography - Visual Aids. Aiding in the completion of the Kodachrome slide library for Region Three, Custodian Toulouse captioned and bound 132 2"x2" slides. Seven Kodachrome frames of the Casa Grande were submitted by Relief Ranger Harry Reed. Twenty-eight Kodachrome slides were sent to Custodian Gipe at Tonto as an aid in interpretation. Custodian Gipe expressed a need for illustrative material.

Office Visitors. Custodians who appeared in the Interpretive Staff Office included Joe Toulouse, David Jones, Irving McNeil, Johnwill Faris, Charlie Wyatt and C. A. Thomas.

Reaction of Public as Influenced by the War. Several visitors to Montezuma Castle reported saving gasoline especially to enable them to visit the monument. At White Sands, visitors reported making the trip to the monument as a desirable means of using up their gasoline coupons. Many cars contained people from several states, people "doubling up" and taking only one car. Tonto reports people more interested in getting the full story than ever before, that they are not deterred by bad weather, they ask more questions about plants and flowers. Tuzigoot reports a higher percentage of foot, bicycle, and horseback "passengers". Several custodians reported that there is a decided decrease in war hysteria, and that people are less worried and consequently less hurried. White Sands reports an increase in questions asked, and an increase in literature and souvenirs purchased by the public.

Regional Naturalist Activities. A revision of the Boulder Dam National Recreational Area Master Plan was reviewed, and PCP proposal sheets for interpretive structures at BDNRA were reviewed and a recommendation regarding their approval was prepared. A prospectus covering the proposed public shelter and interpretive staff headquarters at Carlsbad Caverns was requested. Region Three staff conferences were attended. A museum prospectus for Zion National Park was reviewed. Studies and recommendations were made relative to the Pipe Spring National Monument interpretive development project.

Miscellaneous. Sixty-one letters were written during the report period. Blocks of 500 negative numbers for Montezuma Castle and 600 negative numbers for Gran Quivira ruins stabilization photographs were reserved in the headquarters photograph file. Custodian Toulouse began work on the project of filing headquarters negatives of ruins stabilization projects.

Projects Planned for Next Month. A number of projects have been set up for February, but their undertaking will depend largely upon the time of arrival of Junior Archeologist Steen. It is hoped that a beginning may be made on one or more of the following: preparation of a report covering the status of interpretive projects at all Southwestern National Monuments to be used as a basis for the preparation of PCP proposal sheets; an analysis of the needs of the inter-

pretive department for supplies and equipment so that such items as are essential under war time restrictions may be obtained; a trip to Carlsbad Caverns National Park is planned to study the problem of guide service and handling crowds anticipated after the war; plans for exhibits at the Walnut Canyon National Monument Museum have been static since the department lost the services of Archeologist King. Routine projects will be kept current, and the Southwestern Monuments Association book project will be advanced as much as possible.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors for the month, 46; travel year to date, 278.

Due to the shortage of feed and water outside of the monument, I have had a busy month with trespassers. They have slipped in and watered at the head of Fresh Water in spite of all I could do. There are about three of these sheep men that are quite a bit of trouble. Mr. Jim Westwood has been a lot of help to me on this trespassing problem. He has a permit to run cattle on the monument and at this time of year spends quite a lot of his time riding horseback over the monument and can keep me informed as to where the sheep are located.

Messrs. Taubert, Olcott, and Butterfield were monument visitors this month. Olcott and Butterfield are still somewhere in this section of the country. I spent one day with them out in the Delicate Arch and Devil's Garden country.

A group of soldiers are at the CCC camp removing the balance of the buildings, leaving only the maintenance shop which I am supposed to move over to the monument headquarters as soon as I can secure some help.

We have had pretty good weather so far this month. The river, however, has been pretty well frozen over a time or two. There is about three inches of snow over in the Devil's Garden, but it has melted off on the south slopes. No snow at headquarters as yet but some has fallen a time or two. Only two or three light showers of rain this month.

Pickup and horseback patrol has been carried out almost every day during the month. I have been out of hay for horse feed for several days which is prett tough on the old pony. I had some hay spoken for but the fellow backed out, and I have been trying every place to locate some.

Mr. Marlow Glenn, Acting Administrative Officer, War Relocation Authority, former auditor for the National Park Service, is stationed temporarily here at Moab, Utah. So far they have only 16 Japs in the Dalton Well CCC Camp, but plan for more later. Mr. Glenn has made a few trips out on the monument with me. I plan to take him over in the Devil's Garden as soon as we both can get away at the same time.

Road conditions remain about the same throughout the area. Several trips have been made into the Salt Valley, and I find the roads over there much better than during the hot dry months.

Some work has been done on the yard fence at the custodian's residence, but not much headway will be made until the sheepmen have moved back to their summer range, which will be about six weeks or more.

I planned to do some planting of trees, etc., and most of my spare time from trespassing problems will be used in doing this planting.

One load of gravel has been hauled for the driveway at the residence. Also one load of good top soil has been hauled in for the yard.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 159; travel year to date, 1115.

General. Wonder of wonders, our travel showed an increase over last month and was also more than shown for the month of January, 1942. Most of the visitors were local, coming from New Mexico and Colorado, which states accounted for 70 per cent of the total travel. Parties for the most part were small and the people did not seem to be hurried.

The 600 pounds of scrap metal which we had collected was sold by the Denver Procurement Office to A. B. Downey of Aztec and he took delivery of same on January 11.

Weather. The first real cold weather hit us on January 19 when the thermometer registered three degrees below zero. The maximum for the month was 60 degrees on January 16. We had high winds during the month, that came right off the snow-covered La Platas, making it very disagreeable. The total precipitation was 1.09 inches in the form of rain, snow and hail.

Use of Monument Facilities. The travel for the month was 47 cars containing 150 people. A total of 13 states were represented.

Our ticket sales increased, with a total of 61 sales as compared with 39 for the previous month. In addition, four waivers were issued, with four members of the armed forces and 14 children being admitted free. Forty-seven people visited the museum and received information without charge, and an estimated 29 people visited the area after closing time.

The total revenue collections amounted to $17.26, of which $2.01 was Federal tax.

Guide time for personnel was as follows: Custodian Miller 19 hours; Ranger Mahan 14 hours.

Twenty parties with 38 people visited both the ruins and the museum during the month.

Maintenance and New Construction. Work was completed on an additional museum chair, made by CCC and transferred to us from Chaco Canyon. The bottom was covered with a solid piece of white hide and it turned out to be a very desirable piece of furniture.

Most of our time this month was spent on maintenance and reconstruction of quarters and it looks like we will have this job licked by February 1, at which time we intend to start on stabilization work, with the roof of the Great Kiva getting first attention.

HOVENWEEP and YUCCA HOUSE, by T. C. Miller, in Charge.

Hovenweep: travel this month - 0; travel year to date - 30.

Yucca House: travel this month - 10; travel year to date - 39.

I left Aztec Ruins on January 21 for an inspection of these areas. Rain fell on the night of the twenty-first, which was spent at Cortez, making the two approach roads to Hovenweep impassable so that I had to forego inspection of that area. I reached Yucca House over very muddy roads and made an inspection of that area and returned to Aztec Ruins the evening of January 22. Everything at Yucca House was found in good condition and the register showed that ten intrepid visitors had looked the area over. I doubt very much whether there has been any travel to Hovenweep during January, due to weather conditions.

BANDELIER, by C. A. Thomas, Custodian.

Visitors this month, 29; travel year to date, 1118.

The first half of the month was warm and pleasant, but the warm spell was broken on the fifteenth by a storm that culminated in the coldest weather recorded for several years. The thermometer registered 12 below on the eighteenth and 3 below on the nineteenth. Six inches of snow brought .38 inches of moisture. The approach road has been rough and muddy at times.

Maintenance and patrol have been the chief activities of the month. An electric fence was constructed in the Lower Frijoles to confine stock to the Rio Grande Canyon. The Kohler AC plant was installed in the power house and we are awaiting special batteries to place it in operation. Thirty-two bins were built in the equipment shed to facilitate storage of equipment and materials. Our stock of plumbing fixtures was sorted and placed in bins previously constructed in the blacksmith shop. Ranger Eden and Mechanic Valencia spent 8 days overhauling fences and repairing gates on the Otowi Section. Tony and Jim chose the coldest weather for several seasons for their camping trip. They stayed with it, however, and finished the job before they came in. One day was spent in plowing snow from the headquarters area and the approach road.

A small table saw and two electric fence chargers were added to our equipment during the month. We also received 7 miles of #8 copper telephone wire and 3 log chains from Glacier National Park.

All of our rubber-tired equipment had to be driven to Espanola for tire inspection. This involved 240 miles of seemingly useless driving as the inspection consisted of only a kick at one or two of the tires by the inspector and the signing of the certificate.

Antonio Valencia entered on duty January 1 as general mechanic. The custodian was on annual leave for a week the latter part of December and the first of January.

The custodian patrolled the Lower Frijoles and Rio Grande Canyon during the month. Ranger Eden patrolled the South Mesa on horseback. Ranger Eden and Valencia also thoroughly patrolled the Otowi Section and drove out all stray stock. Four motor patrols were made of the Otowi Section. On one patrol to the detached part of the monument, the Army was found to have opened a gravel pit on monument land and had a power shovel loading a dozen trucks. The operation was ordered closed immediately and the Superintendent was notified. Later, Superintendent Richey and Associate Landscape Architect Kell, accompanied by Army representatives, visited the area and a permit was issued for operations to continue.

The photograph file was brought up to date with all pictures made during the summer filed and numbered.

It looks as though a couple of trips to Arches and a trip to Casa Grande to transport lumber and equipment were in the cards for February. We also plan to continue the building maintenance and maybe get at the telephone line.

Time spent on visitor contact: Thomas - 17 hours.

CANYON DE CHELLY, by Ted C. Sowers, Acting Custodian.

Visitors this month, 8; travel year to date, 134.

General. Arrived Canyon de Chelly on January 21. The roads were far better than expected and pickup and trailer made it in one piece. Missed a snow storm by two days and perhaps we will have our white Christmas a month late.

Wyatt left de Chelly on the twentieth and I was darn sorry to have missed seeing him. Cozy McSparron and Teddy Draper, the Navajo boy, welcomed us. It's nice being back "next" to God's country.

Weather. The lowest temperature was 15 below, and the highest recorded was 65 degrees. According to the records, snow fell on the eighteenth with 0.20 inches, and a slight rain fell on the twenty-second measuring 0.07 inches. Prevailing winds came from the southwest.

Maintenance. The pickup was washed and greased by Wyatt. He spent much time working on the Multiplex which is complete with the exception of glass. Road work was also done by Wyatt. I cleaned out the garage and parked the pickup there. Also straightened up the tool room to get a rough idea of the equipment on hand. Spent considerable time in the office looking over the records.

Visitors. Wyatt enjoyed the company of eight visitors to the monument. Two were from Ganada and the other six were preachers attending the local revival. Hours spent contacting visitors: Wyatt - 11 hours; Sowers - 0. Hope to have good luck and run down a few for next month.

Projects for the Coming Month. Taking care of visitors I hope. Checking the property and equipment on the monument. Listing this and also the S.W.M.A. publications. Wyatt left everything in very good order. Will clean off the layer of mud coating the floors of the custodian's residence. Will also complete the multiplex if I find the glass. This is an outstanding multiplex as the very fine art work was done by Teddy Draper, whose Indian scenes and animals seem to be alive.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 500; travel year to date, 2,500.

In making monthly report for this monument for January 1943, I am happy to say we have had the most glorious January in many years, bright, clear and warm all month except three days. Many visitors have enjoyed the monument just as in summer. Just about 500 visitors this month, bringing total travel to date to approximately 2500 since October 1, 1942.

Weather. Very warm and dry all month, with one brief cold spell lasting three days. Only about two inches of snow through the month. The warmest January in general for over forty years in this vicinity.

Roads and trails have been in splendid condition except during a few days at the beginning of January when the road was blocked with snow. Rocks rolling into the road cause constant work through the winter as the freeze and thaw keeps them coming down.

Reactions of the Public Relative to Interpretative Programs of the Monument Due to the War. Practically no change in the interpretative program of this monument due to the war has been made, therefore observations of reactions of the public were practically nil.

Fauna on the monument is apparently more plentiful than ever before. Plenty of food for birds and beasts, and plenty of birds and beasts. All wildlife is wintering well. We are hoping for moisture to relieve the fire hazard.

CASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 526; travel year to date, 2610.

Weather. The maximum temperature for the month was 75 degrees. Comparison with last year's figures shows that it has generally been warmer as we have had

23 days with a maximum above 60 degrees, and 9 days with a minimum temperature below 32 degrees. Figures for the corresponding period in 1942 show 6 days with a maximum temperature above 60 degrees, and 15 with a minimum below 32. The lowest temperature was 22 degrees and came on January 19.

Precipitation for the month was .53 inches. No rainfall occurred until the end of the period, but we have had several disagreeable days with high winds. If this weather affects travel, it does so favorably, for our largest registration for the month came on the most disagreeable day.

Administration and General. While others were "dreaming of a white Christmas" we were kept busy all day with guiding and reports. Doc Gipe came in at 11:30 p.m. on the eve of the twenty-eighth, leaving the pickup for repairs, and taking dump truck USDI-2443. He returned the truck January 18, and took the Tonto pickup.

We worked all day on the twenty-eighth getting USDI-1218 in shape for travel. We replaced the battery, put on a rear license plate, and put a gallon and a half of Prestone in the radiator. The tail light was missing and we were unable to replace it with another. We loaded 35 sacks of cement, and the saw for Walnut Canyon, and Wupatki, and an herbarium case for Tuzigoot. Guillet left the next morning at 8:20 a.m. and returned on the thirty-first.

New Year's Day was spent in taking down the cooler and repairing the roof of quarters No. 7. This was the third attempt and seems to have proven successful. It was given a coat of Hydrotex asbestos roof covering. On January 1 and 2, the quarterly fire inspection and gun reports were made. The water pump went "hay-wire" due to emulsification of the oil by the water. This has been repaired and cleaned. The typewriter shelf was installed in the desk from the headquarters office. Much time has also been devoted to the inventory which is under way, so between this, office work, and guiding, we have been very busy.

All of the binning, sorting, and weighing for inventory has been done this month and carding is being done as we go along.

Work on museum displays was continued by Archeologist Steen, and he was finally able to secure men to haul dirt for ruin stabilization. This work was started on the twenty-first, a report of which will be made by Archeologist Steen.

Mechanic Stonehocker was ruptured on January 19 when a box of scrap metal, which he was carrying to the scrap pile, broke.

On December 31, a bird (not native to Casa Grande) stopped over, and Charlie Steen III was brought forth into this "vale of tears". His weight was 9 pounds and 5 ounces. He now goes by the name of "Yazzie", and Charlie, Sr., is already worrying about how soon he will be big enough to take his "old man" to a cleaning.

Ranger Sowers and Celia were up from Saguaro in their personal car on December 30 to get roofing paper and rake repairs. They stopped in again on January 19, en route to Canyon de Chelly, and stayed overnight.

Ranger Guillet's wife, Emma, and his daughter Diane arrived on January 16, and are now pretty well settled.

The Stonehockers had the "monument bunch" over for a Malayan dinner on the evening of the twenty-second. It was a get-together for the Steens who will soon be moving to Santa Fe.

Visitor War Reactions. The largest single factor affecting travel for this period has been the rationing of gasoline. The decrease in ordinary tourist travel has been partly made up by the number of military men and their families who visit the monument from surrounding Army camps and air bases. We also catch many Army and Navy men and their families who drop by this way en route to new stations.

Use of Monument Facilities by the Public. We had visitors from 27 states this month and show a decrease of 54.12 per cent for the travel year to date.

Five hundred twenty-six people visited the monument, of whom 349 took the ruin trip. There were 88 guided trips averaging 46 minutes per party. Museum talks were given to 258 of these, and averaged 20.8 minutes per party. There were 177 unattended visitors and run-arounds. Ticket sales numbered 171.

Projects for the Ensuing Month. Continuation and completion of inventory, repainting signs, routine guide and contact work along with the regular office work.

HEADQUARTERS SHOP, by F. E. Stonehocker, Mechanic.

During the month of January a complete physical report of all equipment and supplies except automotive stores was made, with the help of the custodian and Ranger Guillet.

The sorting, counting and weighing as well as the listing preparatory to carding has consumed a great deal of time. To date Ranger Guillet has approximately 90 per cent of the cards made.

One trip was made to Saguaro National Monument to transfer USDI-1254 to that area, at which time the tires on the dump truck at that area were inspected and the old pickup, USDI-1232, brought in to the shop for repair, or salvage of parts All tires on equipment now in use at this area have been inspected.

The 1500-volt electric generator received from the Bureau of Plant Industry in Maryland was transferred to the USIIS in Coolidge, at which time they picked up the transformer belonging to them which was stored in our warehouse.

The Sattley gas engine which was recently acquired from surplus list has been torn down and the necessary repair parts ordered to put it in a satisfactory condition to use in the construction of a pumping unit for Chaco Canyon.

I have just completed two Board of Survey lists for your office, one for the listing of surplus materials and equipment, and the other for the regular condemnation of worn out and worthless equipment for scrap iron, and the remainder to be destroyed, as per instructions.

On January 18 I was unfortunate enough to have an accident which caused a rupture, for which reports were turned in. Perhaps it will be possible to get the inventory of all automotive stores made before the doctor sends me to the hospital.

CHACO CANYON, by Irving McNeil, Jr., Custodian.

Visitors this month, 0; travel year to date, 83.

This month, as all months, has been a busy one for Chaco for, even though there have been no visitors, there is plenty to do.

The weather has been a little chilly and damp. More than two-thirds of the days were either cloudy or partly cloudy. The coldest weather so far this winter, and for this month, is 13 below. At that time, the pipes froze in the house, but by keeping a red hot stove until one in the morning, they thawed, and the custodian was much relieved.

Since last writing, this custodian has begun seriously to ride the horse, and has discovered some remarkably beautiful scenery as well as even more ruins. One horse driven off the monument, was so emaciated that there was much fear lest he collapse before the boundary was reached. After crossing the boundary, and being fenced out, he stopped and miraculously had the strength to turn around. The custodian rode off in haste for fear the sack of bones would drop dead and the owner would swear the custodian killed it!

The horses were crossing the cattle guard. A horse hide was bought, placed on the guards, and the horses, hesitating to tread on their brethren, stayed away. Now, the cattle have learned to cross the guards--never a dull moment!

The water pump motor refused to operate one day (not an unusual occurrence, it's sort of temperamental), and it was necessary to pull off the head to get at a stuck valve. It was a great joy to hear it run again.

This month the light plant has finally been put to work. No more cleaning lamp chimneys and the like, it is hoped. When the lights came on, there was a feeling of exultation similar to that expressed by the poet for Columbus... "...a light, a Light, A LIGHT! ..."

A Government trapper asked permission to trap on the monument but, of course, was refused. Undaunted, he set traps all around the monument and gleefully rides through our area going from one set of traps to the other. All we can do is glare at him.

The Army descended upon the place and took all the material which had been carefully hoarded in hopes that it would be transferred to this monument. Chaco could have used it, but if it will help hit Hirohito, "bean" Benito and kick Hitler, the Army is welcome it.

The event of the month was the visit by this custodian to the Southwestern National Monuments and Regional offices. A number of tangles were straightened out. One thing truly appreciated was the grand welcome received from all the personnel in both offices!

CHIRICAHUA, by Frank Fish, Custodian.

Visitors this month, 68; travel year to date, 864.

Twenty-four of the visitors were from the armed forces, 48 from out of state, and 20 from in-state. About the only change in visitor reaction is in their scarcity.

Maintenance. Consisted of road work, gathering of wood for fuel, overhauling of the light plant and the washing machine. Inspection of the Sugarloaf Lookout was made and everything found to be in good condition. No outside help was hired during the month to date, but due to heavy storms that brought down much material in the road gutters, a man is being hired for cleanup of gutters and resurfacing rough spots on the roadway.

General. A mild winter is being experienced in this region, no snow that stayed at headquarters so far. Some drifts on the roadway above 6000 feet. John C. Riggs, owner of the mill site at Bonita Park, passed away during the month. The custodian aided in digging his grave one forenoon; another grave-digging job was accomplished for Ida Lily Riggs, who passed away the next week. A special report on grazing was forwarded to the Director at his request. Due to the shortness of time, it could not be forwarded through the regular channels.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 0; travel year to date, 85.

Weather. Maximum temperature 58 on January 15. Minimum, 12 below zero on January 18. There were six cloudy days and four partly cloudy. We have had approximately nine inches of snow during the month. At this time there is another snowstorm in progress.

General. Gas rationing and threats of snow have put a stop to travel to travel to this monument.

Maintenance, Improvements and New Construction. Office work and construction work at the water pool have kept the custodian busy this month. Work was shut down several days during the month at the pool, on account of snow, but when we were able to work we had a larger crew than usual working, so we really accomplished quite a lot. The rock debris has been cleaned out down to the water level of the pool. The water will have to be pumped out before much more cleaning can be done. At this time of year the melting snow keeps adding more water to that in the pool, so work may not progress so well as it has in the past.

We have experienced some difficulty here at the residence with the Flamo system. On one of our coldest mornings the stove refused to burn and the wife had to cook breakfast on the fireplace. Later in the day I took off all connections to the tanks and found nothing wrong so put it back together and everything works fine now.

Projects for the Ensuing Month. Will continue work at water pool if weather permits. Will see if I can persuade the Chevrolet pickup to start. It seems to be on vacation the last few days.

GRAN QUIVIRA, by Joe H. Toulouse, Jr., Custodian.

Visitors this month, 21; travel year to date, 171.

Visitor contact time: Custodian - 1 hour, 35 minutes.

Travel by States. All new Mexican.

Continuing and Routine Projects. Continued work on the interpretational statement for this area and the surrounding region, finished up another 150 Kodachrome slides for the Headquarters Naturalists' office. Part of one day was spent on telephone line inspection. Door glass in pickup came out and had to be replaced, a job the custodian was able to accomplish. Made out a statement of birds banded for the Western Bird Banding Organization. Finally, after much consultation with the local gas rationing board, set up the tank system at Gran Quivira as a Government service station. Received a query as to a bird band. It was our number all right, but not our bird. Some fellow read the band number wrong, I guess. Typewriter went on the blink, needs cleaning and adjusting. Managed a temporary exchange with headquarters until my machine gets fixed. Inspected tool house and made a cost-report to headquarters on the fixing up of one room as an office. An official trip was made to Mountainair where the pickup was serviced, tires inspected and a couple of side-wall cracks vulcanized. Inspection passed OK for this period. One day spent on official duty at headquarters helping out in Naturalists' office--managed a chance to see Davy and Corky Jones. Two days spent this month in working up an inventory of the official monument library, one additional day needed in completing this project.

Acquisitions. The two latest Bureau of American Ethnology bulletins, and an almost complete set of the Regional Review, of Region One.

Nature Notes. Had a huge flock of Mountain Bluebirds invest a juniper tree two feet outside the kitchen door, apparently a migrating flock which had paused to feed up on juniper berries. There must have been at least 600 birds. Our presence in looking at them through the back door didn't phase them one bit. Quite an experience, at least for Patty, as she adores bluebirds.

Continuing Projects. Follow up on toolhouse renovation for an office, and, if approval is granted, inaugurate the investigation of the water system at Gran Quivira, mapping and cross-sections in order to record this interesting feature as an interpretational phase of pueblo and mission life here--then too, to deter-

mine whether the feature is historic or prehistoric. Also, if the weather holds out, to use a horse and get out a bit on further archaeological survey. Keep at the interpretational statement. Then, too, have a number of the Gran Quivira stabilization photos to mount and enter into headquarters photo file and catalog.

MONTEZUMA CASTLE, by Homer Hastings, Acting Custodian.

Visitors this month, 112; travel year to date, 743.

General. It seems strange to a man from the mountains to be nearing the end of January with no snow on the ground. However, a little snow is in sight on Squaw Peak, a mountain to the south. The lowest temperature on record here was reached on January 19 when the mercury dropped down to 11° above zero. Previously the lowest temperature had been 14° above zero.

Weather. Maximum temperature, 70°; minimum, 11°; mean maximum, 60.35; mean minimum, 27.77°; clear days, 23; cloudy days, 7; total precipitation, 1.14 inches.

Administration. Office work and reports were kept current. The required quarterly reports were submitted and a report with accompanying map was made on the grazing situation.

Tires were inspected on USDI 1252 as required by the Office of Defense Transportation, and the windshield is now embellished with a "T" sticker. A new fire extinguisher to replace one that was faulty was received and installed in this truck.

To date 242 negatives have been prepared in the project to photograph museum artifacts. Eight pictures are being taken on each 5"x7" film and each artifact requires a separate exposure.

Maintenance, Improvements, and New Construction. Major event of the month was abandonment of the faulty underground electric cable and completion of an overhead line. The transformer was removed from the basement of the museum and placed on a pole outside the building where it is no longer a fire hazard.

Informational signs were altered as suggested by the superintendent. One of the diagonal parking signs was removed, the other placed in a more favorable location. The general information sign at the head of the visitor trail was lowered and the museum sign was attached directly to the building.

A truck load of fence posts for firewood was salvaged from the abandoned fence across the creek, and the wire was removed. It was found that this wire was so pitted with rust that it would be of no value for scrap metal.

The gasoline pump was given a coat of green paint and the truck bed was oiled.

Activities of Other Agencies. The acting custodian made a trip up the Verde River to the mouth of Oak Creek with the district forest ranger to check on the available post-sized black willow cuttings desired by the Service.

A copy of "A Field Guide to Western Birds" by Roger Tory Peterson was donated to the monument library by Southwestern Monuments Association. This is one of the best bird keys we have seen.

Guide and Contact Service. Total contact hours, 33.25; Hastings, 18.75; Reed, 14.50; ruins trips, 20 for 72 visitors; museum parties, 21 for 97 visitors; information service for 15 visitors. There were no campers or picnickers.

Three talks illustrated by Kodachrome slides have been given at Camp Verde by Ranger Reed. Ranger Reed has an especially fine collection of Kodachromes and the talks were thoroughly appreciated.

Protection. Considerable activity by porcupines has been noted. Early in November they were eating bark from the hackberry trees. Now they have turned to the shoots growing from the bases of the sycamores, some mesquite, and the creosote

brush. So far only the creosote brush has been attacked so seriously that it will die.

Projects for Ensuing Month. When printing paper arrives, we plan to make three prints from each negative now prepared. These will be numbered and placed on filing cards with pertinent data.

A complete patrol of the monument boundary fence is planned.

Protection, patrol, maintenance, and visitor contact is to be continued.

Visitor Reaction. On one Sunday we had thirty-four visitors, many of whom stated they had been saving their gasoline for a trip to Montezuma Castle.

NAVAJO, by Bill Wilson, Acting Custodian.

Visitors: this month, none; this travel year to date - 16 visitors in 8 cars. This month last year, no visitors; last year to date, 34 visitors in 15 cars.

Weather. As this is being written, a storm of blizzard proportions is going on--snow with a high wind, the latter of several days' duration. Including the big snow of Christmas Day, about 17 inches have fallen during the period, representing about 4-1/2 inches of moisture. Low on January 19 - zero; high on January 14 - 53.

Roads. The road was in fair shape considering the amount of snow and the thaw which followed. We were gratified that the Indian Service ran the snow plough over it for about four miles from Shonto following the big Christmas Day snow.

Radio. Daily communication with Window Rock via short wave radio, continues to be maintained.

Publications. A supply of maps entitled Southwestern National Monuments was received and will be distributed at opportune times.

Library. All books, pamphlets and magazines were sorted and listed, a complete list being sent herewith. Many items on the list are gifts of the Brewers.

Maintenance, New Construction, Miscellaneous. Two days were spent on USDI 2946 and it is now in good working condition. Boxes were made and lined with corrugated cardboard and put over the covers of the redwood tank to keep frost out. Locks will be installed on covers when they can be secured. None were to be found in Flagstaff. When sandpaper arrives, the fire-tool boxes will be painted and completed (we hope). Any patrolling of monuments will now have to wait until spring. Meantime the maintenance of the headquarters area will be carried on and desk work kept up to date.

P. S. January 25. About 13 inches of fresh snow, so perhaps we are snowed in!!

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 3546; travel year to date, 13,081.

Weather. The first rain in nine months fell at Bates Well on the twenty-third, but to the east and south there was only a light shower. Now that the spell has been broken, it looks like we will get more. We certainly need it, for most of the cattle look like cross-cut saws turned upside down. At a distance it is hard to distinguish between a cow and a dead saguaro.

Travel. The gas business in Sonoyta is still going strong. Figures show a decrease of only 36 cars for this month, although the importation of sugar and coffee has been stopped.

Roads. With a little moisture and prospects of more, maintenance of the new road becomes more imperative than ever. The County, through Mr. Tom Alley, District Supervisor, has agreed to put their maintainer on the road and, although more moisture is needed to make a perfect job, this blading will help tremendously.

New Construction. Rain again is the "Major-Domo", for until Bobbie Gray, the only available carpenter, gets a good rain, he can't help me with the framing of the temporary quarters at the headquarters area.

The new 112-foot well and 3,000-gallon tank north of Santa Domingo Springs, were completed on the twenty-second by Henry and Bobbie Gray. This new, permanent supply of water will be a great help in holding wildlife on this side of the international line.

Projects for the Coming Month. "If" it rains again, three days will be spent on the new road to see that the operator of the County maintainer stays on the roadway and doesn't cut Jerry's invisible ditches. Two days will be spent in hauling hay to Bates Well, and possibly one week riding with the Grays, working the country around the new well. All remaining time will be spent at the headquarters area, working on the building, except for two routine patrols, on which the map work will be continued.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 297; travel year to date, 1558.

Weather. During the major part of the month we have had cool weather and overcast skies. However, this cloudy weather has brought very little precipitation. On the twenty-third and twenty-fourth there were several light intermittent showers, with some snow at the higher elevations. At present the skies are clear and we hope that it will at least warm up for one day so that I can continue patching the roof.

Visitors. We have had 297 visitors this month, as compared to 1,425 visitors for this month last year.

Cars - - - - - -	78	Outstate - - - - - -	42
Instate - - - -	36	Horses - - - - - -	20 - 4 parties.

Guide Service

Sowers - - - 5 hrs., 25 min. Peavy - - - 3 hrs., 25 min.
Total - - - 8 hrs., 50 min.

Manning Camp and Rincon Mountains. On the twenty-seventh of December I rode over the Rincons, via Happy Valley Saddle, with Lloyd Van Deren, X7 foreman. We spent most of the twenty-seventh looking over springs and range conditions on the way to Manning Camp. Upon arrival at the camp, I was agreeably surprised to find everything in just as good condition as we had left it last fall. The only disappointment was the dry condition of the area for this time of year. There have been only four light snows on the mountain this winter.

The next day Lloyd returned to the X9 via the Grass Shack Trail, while I stayed at the camp three additional days, patrolling, inspecting and repairing telephone line and getting dope for the annual forestry report. The maximum low temperature during my stay up there was plus 23 degrees F.

Very few deer were seen during this four-day inspection.

Special Reports. The Annual Forestry Report and Fire Occurrence Maps were prepared and submitted during the month.

I spent four days during the month gathering data and making a reconnaissance for grazing report on the monument. I covered the three allotments fairly well

on horseback and by pickup. The report is complete with recommendations and will be mailed today.

Inspections. During the month Ted and I inspected Baker's Well, oiled machinery and tried to pump some water. No water was forthcoming. I will pull the pump shaft some time in the future and see if this well can be made useful.

Most of the fence surrounding the Cactus Forest area was inspected for breaks during the month.

I rode to the Tanque Verde salt ground adjacent to the monument with Jim Converse, and also walked up several canyons adjacent to the loop road, accompanied by Jim Converse.

I accompanied Chet McCarty, foreman of the Bar AA, to Juniper Basin and returned via Tenajo Renaldo. We inspected areas of poor distribution and I noted locations where temporary water could be developed with very little work. We also explored a very large bat cave in Tenajo Renaldo that I did not know existed.

Cooperation from Other Agencies. On January 15 Dr. Mielke and Dr. Kimmey of the BPI arrived to continue work in checking the spread of bacteriological Necrosis in the giant cacti. They have been working in the area almost every day and their check will soon be complete so that we will soon know the disheartening findings.

I returned the iron wheelbarrow and large metal-lined ice chest to Ranger McPhaul, Catalina District. These items will take the place of the USFS box and wheelbarrow located at Manning Camp.

Improvements to Improvements.

1. Ted and I installed the linoleum in the kitchen. It improves the room and Marge's disposition 100 per cent.

2. A shelter was built over the water compressor to prevent the soaking of the motor during infrequent rains.

3. The powderhouse was cleaned and renovated.

4. Garbage receptacles at the picnic area and the tool box on the dump truck were given a coat of aluminum paint by Ted.

Automotive Equipment. Gene delivered USDI 1254 on the eighth and returned to Coolidge with USDI 1232.

I obtained a "T" coupon book for USDI 1219, and a reallotment for USDI 1254, from the local ration board.

The ODT certificate for USDI 1221 arrived during the month. 1221 is to take the place of 1254 being used here temporarily.

Personnel. Ted and Cecelia Sowers left on the nineteenth. We enjoyed their presence and assistance very much and felt a little lonely when they left.

Roads. On January 18, Ted graded the loop road after a very light rain. The road is in good shape at present.

SWM Association. I put the various publications turned over to Ranger Sowers on display yesterday. The cards printed on the soft finish paper are going fairly well.

Projects for Ensuing Month. Starting to recruit men for FFFS, patching roof, pulling shaft at Baker's Well, and more area inspection and, if possible, deer count in Cacti Area.

TONTO, by E. C. Gipe, Custodian.

Visitors this month, 146; travel year to date, 1017.

Use of Monument Facilities. A total of 146 people visited the monument in 38 cars during the month. Sixteen states were represented. Ninety-four people visited the ruins, 137 visited the museum, and 6 were contacted at the parking area. Two-thirds of the cars were from out of the state.

There is an increasing trend toward cars containing people from several different states. They get together in one large party, using the car that will hold the most, and of course we record the state named on that license plate. It doesn't seem truly representative, but don't know how to do it otherwise.

Personnel Time. Custodian Gipe, 35 hours.

General. Our visitors continue to be very much interested in all that we have to show them, and many express deep regret that they have not the time to visit both dwellings. They are asking more questions than usual about plants and flowers. Rain and a muddy trail do not seem to bother them, as I have made several trips to the ruins in a heavy rain.

One might think that as this is such a small place the custodian would have to hunt for things to keep busy with, but the hunt seems to be for time in which to get them all done. Said things include showing the ruins by flashlight, and the museum by lantern light. Life here is never monotonous and the ever-changing scenery of water, mountains and clouds makes up for the ever-thinning soles of our rockworn shoes.

Weather. Quite a little rain this month. Storm fourth and fifth, with snow on peaks extending down to small peak at head of Cholla Canyon, and a one-night rain the seventh. An all-day rain on the seventeenth, and our first freezing weather recently. The water pipes have been frozen three times.

Have just had another heavy rain lasting from the night of the twenty-second to early morning of the twenty-fourth, and it looks very much like rain again tonight. The clear weather has been pretty snappy and there has been considerable wind. It was really blowing the night of the twenty-third. The tent certainly rocked on its sketchy foundation and the fly snapped and cracked like heavy artillery. If a marine had happened by I would have been sure we were after the Japs.

Maintenance. Hauled 25 yards of gravel for use on building site, road and parking area. Worked on road, trail and water line. Mr. Carmac of the Highway Department came one day with the grader and helped widen out the approach to the entrance road. We spent all day on that job.

Museum. Went to Coolidge to return the dump truck January 18, and returned the nineteenth, bringing back shelves for one of the museum cases and a large storage basket. The shelves have been installed and the pottery previously brought up, arranged. Glass was removed from the other two cases, cleaned and replaced after a general housecleaning of the cases. Some other changes were made for better lighting and more accessibility.

Wildlife. We have the same varieties of birds as last month. Porcupines, bobcats, and a javelina have been seen, also coyotes and six scaled quail (I think). They are larger than a bobwhite and looked something like a sage hen. I could not see them plainly and hope they will return so that they may be definitely identified.

Projects for the Ensuing Month. Continue moving rocks from the house site and finish excavating; start foundations if possible. With the numerous storms, there is much road and trail maintenance.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 314; travel year to date, 1707.

Visitors. Visitors were rather unpredictable this month. Some days there were a number of parties and other days no one came. A total of 314 persons visited the area in 81 cars. Of these 238 were conducted through the mission ruins and museum.

Maintenance. The usual maintenance was performed on the monument plant. The washing machine was repaired. The furnace in the museum was cleaned and oiled. Weeds were cut and hauled away. A leaking roof on the custodian's residence was repaired. Earth was spread in front of the garage to bring ground level with floor of garage. The pickup was washed. Wood was hauled. Manure was hauled and spread. Trees on the monument were trimmed and thinned.

Continuing Projects. Grounds will be weeded and other cleanup jobs will be performed as time permits.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 217; travel year to date, 1366.

Travel. Not bad. In fact, we even counted 35 more visitors than we had last month. But the decrease in comparative yearly totals to date has mounted to 32.40 per cent.

Trends. Tuzigoot is still quivering from its first sight of a WAAC. She marched in upon the old Pueblo last week fresh from a recruiting campaign in the Verde Valley, and cast an appraising eye at the military strategy of 700 years ago. The lieutenant had every able-bodied gal in the district pining to join up, and it was all we could do to keep Tuzigoot Nellie from climbing out of the case and following her through the museum door. If that's a trend--Boy!

Horse, foot, and bike travel are all up, with increases over last year to date of 52.3 per cent for horse and bike combined, and exactly 100 per cent for foot. Incidentally, to be exact, we should admit that "horse" in this case is mainly "burro", and the variety that visits Tuzigoot can pack as many kids as fleas, on and about them.

Official Visitor. We were glad to meet Meredith M. Guillet, who stopped by on his way to start rangering at Casa Grande and left us a fine herbarium case. The HCWP now has enough room to store every weed specimen from the monument and half the alfalfa crop from the fields below.

Guide and Contact Service. Museum, 17 hours 20 minutes; field, 25 hours.

Personnel Time. Custodian, 34 hours 55 minutes; Harry Reed, 7 hours 25 minutes.

Projects Completed or Continuing. Last week the long-continuing project of securing anti-freeze for USDI 1304 was concluded. The stuff arrived. We further ministered to USDI 1304 by installing a new tie rod and lining up the front wheels, installing filter cartridge in the oil cleaner, touching up the paint, welding loose fender struts, and adjusting the idling speed.

The demolition of Unit IV restoration by the custodian and his crew proceeds with mutual destruction. We have gotten down to business and erected a Rube Goldbergian rubble chute and safety platform, both out of the rafter poles of the top room. Priority note: not a nail used. In mid-January, Mickey Ryan, Darwin's younger brother, was added to the "crew", and promises to keep pace with Darwin, who has been slinging a sledge with wonderful effect since the work started. We were just congratulating ourselves in being able to add a real Irish name to the payroll, when we were drawn up short by the Employment Memorandum. He had to confess it's really "Maurice Lee".

WALNUT CANYON, by Paul Beaubien, Acting Custodian.

Visitors this month, 174; travel year to date, 1643.

General. Light snows early in the month were of little consequence but one lasting three days last week was a real one. It has melted some and settled, but is still two feet deep on the level with occasional drifts covering fences. The roads are blocked and the telephone line is out as I write this.

Visitors. The 174 visitors arrived in 55 cars. Thirty were not contacted, and it is estimated that 80 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien, 23.

Activities. Spent lots of time hunting a leak in water line without finding it. Ralph Fish was hired for three and a half days to work covering exposed parts of portable repair shop, and to haul sand for its foundation. Also wanted him around so I would have someone to whom I could 'phone in case I had trouble with dump or roads when I went to Cow Spring for coal. But arrangements for getting coal there developed a hitch. A thermostat was replaced in ice box. Hunter Stratton was here with transit to locate repair shop according to Master Plan. Construction of the register stand is 90 per cent complete.

Changing Trends in Public Use, Etc. None were observed.

Wildlife. Turkey tracks have been common this fall, but I never saw the turkeys themselves until yesterday when five were seen between the two stone residences. Two other times this month flocks have passed between the two residences, one of 12 birds and one of 17.

Projects for Ensuing Month. Shovel snow from paths and roads. Find break in telephone line and repair it. Finish register stand and paint the office furniture. Find leak in water line and repair it.

The roof of the administration building is leaking badly, but I believe it should be repaired in warmer weather.

WHITE SANDS, by David C. Winslow, Park Ranger.

Visitors this month, 1073; travel year to date, 9,840.

General Travel. A decrease of visitors over the last travel year amounting only to 13.6 per cent was tabulated, a remarkable showing when one considers all of the restrictive conditions on traveling. However, there was a greater decline this month which was hidden by favorable figures for the previous months over last year. Only 261 cars registered as against 803 last year, indicating heavier loading of civilian cars and the greater carrying capacity of the army trucks.

With fewer visitors, we generally have an opportunity to show them through the museum. Then too, they value the trip more because it is harder to reach here. This is shown in the more questions asked, souvenirs purchased, and literature requested. The S.W.N.H. folders and Glimpses of Our National Parks are accepted eagerly and even with enthusiasm. Everyone appears to want to know all about the White Sands, the monuments, and parks.

As to the war reaction, most people now feel confident of victory and have relaxed a bit. They are not as hurried in their visits as a month ago. Many were surprised to find the A or C ration books sufficient, or still containing coupons. A few even came out to consume their gasoline before their coupons expired. Some of our local friends came out to get a new permit to benefit the entire year in its use. Cross-country travelers, on C cards, do not hesitate a moment to go around the loop.

Weather. Three days witnessed high winds slowing up the visitors and blowing sand onto the roads. Heavy fogs enshrouded us a few early mornings, that information being forwarded to the Alamogordo Air Base for their use. Generally, the weather was fair with southwest winds. The nearly cloudless, or clear skies, provided ideal conditions for colorful sunsets and sunrises. Only a couple of those

chilly "northers" moved in. Each night found the minimum generally below freezing, which discouraged even the most hardy from an overnight stay. The maximum was 73 with the museum doors wide open. Precipitation was recorded three times in scant amounts. We haven't had snow but the surrounding mountains have been mantled twice.

Administration. The annual inventory, as of January 1, 1943, was completed and included: a comprehensive survey of non-expendable items, a bibliography check, and a board of survey. Also, warehouse cards were made out for the Southwestern Monuments Association book sales record, as recommended.

Publicity. An article, "Soldiers' Paradise", was published in the National Parks Magazine this January-March issue, which describes soldiers' use of the area. Mr. Beery of Minneapolis, Minnesota, took innumerable photographs for a travelogue talk estimated to last 35 to 40 minutes. He is the owner of four hotels and gives many talks around the "twin cities".

Maintenance. The Sands road was bladed and dragged throughout. Blowing has been heavy with the high winds. Also, the road to the Garton Well was bladed with the completion of the Skousen Brothers water-hauling. Sand and gravel were spread on the residence grounds and drive. The parking terrace and the road approaches were cleaned--a lot of tumbleweeds were encountered!

New Construction. Cleaning out of the diversion ditch back of the dike required considerable cutting and hauling. This work will protect the headquarters area by confining flood waters to the channel and should aid in keeping the dike from washing. The wholehearted support promised by the State Highway Department will lead to an early completion of the lower end of this drainage. Photographs were taken to point out the usefulness of the carryall and to show the drainage ditch.

An earthen ramp was built for loading our equipment. The promised fuel oil barrel rack was constructed, simplifying hauling, and providing more space in the utility yard.

We gathered and loaded out another 2,000 pounds of scrap.

Park Operator. Tom Charles has had a fair sales month. His C book allows him about three visits a week. Mrs. Joe Shepperd helps out between times. This past week Tom has been confined to his bed by illness. "Get well soon, Tom, White Sands needs you".

Visitors. Colonel Turner, Commanding Officer of the Alamogordo Air Base, came out to see us with Tom. Later, we had the pleasure of meeting Mrs. Turner, his wife, and showing her around the Sands.

S. K. Neueschel of the U. S. Geological Survey, and M. Z. Braden and R. L. Croydnton of the U. S. Coast and Geodetic Survey were here. Also, Willis Johnson and another inspector of the U. S. Customs Service, who have moved to Fabens, Texas, nearby, took this opportunity to bring their families over. Field Executive Earl McKeehan, of the Boy Scouts of America, was a three-night guest at the White Sands while working in Otero County.

Dr. A. L. Hershey, biologist, stopped by for a visit while examining Mal Walters' range. The Zoology Department was represented by Dr. Hoffleslinger who brought over his family. Both are members of the New Mexico Agricultural and Mechanic Arts College.

Museum Work. Considerable time next month will be devoted to making out accession records. Also, there is some cleaning, and light fixtures to be installed.

Projects. The photographic file will be overhauled. The P.C. file, which has been in the process of completion, will be completed, including indexing.

Too Late to be Classified. Custodian Faris has a brand new boy, Kenneth Ray. He has real black hair and looks like his daddy. Proudly, he passed around

some cigars (which the personnel felt obligated to smoke - ugh!). Mrs. Faris is doing well in the city hospital.

Joe Shepperd had a long letter from his boy in Alaska.

Since the custodian is alone and the rangers' wives sneaked off to visit Oklahoma kinfolks for eleven days, they have renamed themselves the "three bachelorteers".

WUPATKI, by David J. Jones, Custodian.

Visitors this month, 15; travel year to date, 222.

At the Citadel 9 persons registered, whereas at Wupatki there were 14 persons. Duplicate names totaled 8. While a number of them registered from out of state, it is estimated that at least 80 per cent were from the immediate locality. Two parties of 5 persons were contacted--no visitor reactions perceptible.

Weather. January continued to be exceptionally warm, although there was a brief cold wave during which we recorded a new all-time low of 4 degrees. Snow and rain fell while we were on vacation, but the record of this was lost when Caretaker Peshlacai went "haywire" and stored the rain gage inside the garage.

General. During two weeks' annual leave in New Mexico we made a trip to Santa Fe and had a swell visit with everyone at Headquarters and with the Toulouse's who happened to be there at the time. We were even treated to a guided tour of the Regional Office. Now there is where you really need a pair of roller skates to get around.

In the latter part of December a smallpox epidemic was reported among the Navajos at the Ordnance Depot. After a lot of people had been vaccinated it turned out there there had been an incorrect diagnosis. Not only did we have to make a special trip to town for the vaccination, but I spent three days on sick leave from the after effects.

To start off the New Year I had the interesting experience of looking down the wrong end of a gun barrel. The story is rather long and involved, but the incident occurred off the monument when I stopped a hunter to reprimand him for hunting on the monument, and to inspect his hunting license. Before I had even stated my business he was threatening me with a shotgun. I was so amazed and so engrossed in watching the gun that I left without further ado. Moral of the tale is to always be sure to state your authority and business the moment you stop anyone for a violation of the law. It also helps a lot if you are wearing your uniform.

Water samples from both Wupatki and Heiser Spring were submitted to the Public Health Laboratory for analysis and found to be potentially unsafe. In the very near future steps will be taken to correct this condition.

Snow blocking the road made it impossible to inspect Sunset Crater this month; hence no report for this area will be submitted.

Status of Work Projects. Most of the past month, while on duty, I spent working over the filing system and establishing a dead file. At this writing the project is 90 per cent complete.

The MNA cookshack, a blot on the landscape for the past few years, has been torn down and the site cleaned up. It had served its purpose many times over, so Dr. Colton donated it to the monument to dispose of as we saw fit. Because of the present lumber shortage, we traded it for a very nice Navajo rug. Most surprising event was the discovery of a $50 check in a niche between the wallpaper and the wall.

Establishment of radio communication between Wupatki and Walnut Canyon is being held in abeyance until the arrival of a radio technician.

Projects for the Ensuing Month. It is planned to eliminate the source of pollution both at Heiser and Wupatki Springs; complete the stabilization report; prepare a physical plant index; and work on archeological collections from last year's excavation.

SUPPLEMENT

The following information of interest to the field was extracted from the Superintendent's January Narrative Report for the Director.

Special Activities. Superintendent Richey was on annual leave January 2-10, inclusive, and was on duty in Santa Fe the remainder of January with exception of the eleventh when he made a field trip to the Otowi Section of Bandelier National Monument to confer with Army Engineers regarding certain potential Army use of this area in connection with the Los Alamos project (Zia Project) now being constructed by them. At Bandelier Mr. Richey, accompanied by Associate Landscape Architect Kell, conferred with Custodian Thomas, Capt. Shepard, Area Engineer, and Lt. Loughridge, Office Engineer. It was arranged to issue the U. S. Engineers a special use permit for certain use of monument lands.

From January 13 to 31, inclusive, Superintendent Richey served as Acting Regional Director during Regional Director Tillotson's field trip to Texas in connection with the Big Bend National Park Project, Denison Dam and Reservoir Recreational Planning Project, and CCC liquidation.

Mr. Richey conferred with New Mexico State Park Commissioner C. E. Hollied concerning easements to transfer the jurisdiction of Conchas Dam Recreational Area to the State of New Mexico.

Assistant Superintendent Maxwell was on duty the entire month, with exception of two days' absence on sick leave, and assisted in dispatching the work of the Region Three Office in addition to his regular duties.

Personnel.

Appointments

Natt N. Dodge was changed in status from Assistant Naturalist, FCS-11 to Associate Naturalist, FCS-13, effective January 1, 1943.

Theodore C. Sowers was given war service appointment as Ranger, FCS-8, Southwestern National Monuments, effective January 1, 1943.

Mrs. Mabel B. Usrey was given extension of War Service Appointment-Temporary, effective January 6, 1943, as Junior Clerk-Typist, FCS-6.

Antonio Domingo Valencia was appointed General Mechanic, Bandelier National Monument, FCS-7, effective January 1, 1943.

Separations or Transfers

Theodore C. Sowers was separated from the position of Ranger, FCS-7, Southwestern National Monuments (temporary), effective close of duty December 31, 1942, upon termination of employment.

Deaths

Evon Z. Vogt, Sr., former Custodian, El Morro National Monument, on January 26.

Births

To Custodian and Mrs. Johnwill Faris, White Sands National Monument, a son, Kenneth Ray.

To Junior Archaeologist and Mrs. Charlie R. Steen, Southwestern National Monuments, a son, Charlie Rupert, on December 31, 1942. Weight, nine pounds, five ounces.

PERSONNEL NOTES

Interest this period centers about White Sands where "Gyp" Faris has had a busy and exciting month. Crash of an Army bomber in the Sands and the violent death of the crew members kept Johnny on the jump for a time, while the arrival of Kenneth Ray Faris at the Alamogordo hospital sent "Gyp" on a cigar-buying junket. Being unable to get rid of all the cigars in Alamogordo, Johnwill appeared in Santa Fe on January 22 and distributed them liberally among Headquarters and Region Three personnel. Aside from the fact that Lena and Kenneth Ray are coming along fine, we have no further data from the nursery. All of us send our congratulations to both Lena and Johnwill.

Is it the war? Recent additions to SWNM families are boys, whereas a year or two ago we recorded an unbroken string of girl babies.

For all the excitement, Johnwill found time to write a newsy and interesting letter to SWNM personnel now in the armed forces. A number of copies were typed and, with air-mail envelopes, were sent in to Headquarters to be addressed and mailed out to all of the boys in uniform. Happy thought, Johnwill!

Adding to last month's roster of SWNM boys in the armed forces, the following will be of interest to everyone: Dale King writes from Hq. and Hq. Squadron, Third Bomber Command, MacDill Field, Tampa, Florida, that he is in an office with ten men and only two typewriters and can type 25 words per minute by the touch system. He reports graduating from Clerical School in L. A. with a grade of 94.4 and a recommendation from the Captain entitling him to submit an application for Officer Candidate School on January 24. The Florida climate is whipping Dale's asthma, and he easily passed the overseas physical exam. Dale concludes with an expose' on daily doings in camp and requests letters from the gang.

Davey Jones sends in a note stating that Clarence Cole, at one time clerk in the Headquarters office, is now a second lieutenant in the air force and is training at the Bombardier School in Albuquerque.

Jesse Jennings, once of Montezuma Castle, is now in the Navy.

A Christmas card from Ensign Francis Elmore (ex. Chaco, Bandelier, Casa Grande, and Saguaro) says, "Hello, everyone! Just a quick note to wish you all a Merry Christmas. Wish I could write each of you, but we are taking a two years course in two months, so I hardly have a minute of my own."

A V-mail letter from Ray Ringenbach informs us all that Ray was (November 30) located near Casablanca, French Morocco, a city of 250,000 civilian Arabs and French. American cigarettes are 70 cents per pack. The only things abundant are wine and champagne, and Rick indicates that he is doing his best to reduce that supply to the basis of other commodities.

Harold Enlows (seasonal Chiricahua) is in the Naval Reserve and expects a call to active duty at any time. While waiting, he is teaching and carrying on geological research studies at Tulsa University.

In line with suggestions submitted by several field men, extra copies of "Personnel Notes" were mimeographed last month and sent to all SWNM personnel now in the armed forces. This practice will be continued, any postage expense being borne by the Southwestern Monuments Association. Field men are urged to send in any information relative to personnel in the armed forces that will be of interest to others. Headquarters will maintain a list of addresses, and it is requested that the Superintendent be notified of any changes in address so that the list may be kept up to date.

Development of a new fire-fighting organization under the Office of Civilian Defense is being formed and several field men are involved. Beaubien, Fish, Cotter, Peavy, Bates Wilson, Hastings, Thomas, Farr, Toulouse, McNeil and Baxter will take part in lining up and training men in their localities for emergency service in case of need.

Last month we introduced Meredith Guillet, who now fills the Casa Grande-Natural Bridges ranger position. Meredith writes that he answers to the names of "Red", "Torchy", or "Med" - take your choice. Red's and Emma's daughter, Diane, usually goes by the nickname of "Danny".

Harry Reed, Relief Ranger, seems to have interpretive leanings as reports of three talks he has given at Camp Verde have passed through Headquarters. Since Harry's reputation for high class color photography is based, principally, on his splendid collection of slides on Arches National Monument, McKinney may have something to do with all these talks Harry is giving. Better watch out, fellows, or Mac will be switching all your local patrons over to Arches enthusiasts. Is Harry just an innocent "tool" in Mac's scheming?

Letters from Luis Gastellum indicate that he likes the country around Fresno, but that Aggie can't get used to the fogs, especially on wash day. Luis reports food prices and other living costs surprisingly low. He says that Archie Chrisman (Casa Grande) is now in Fresno, comes to work on the same bus as Lui, and works in the office directly across the hall in the same building. Lui and Aggie live at 1905 San Pablo, Fresno, California, and would enjoy hearing from some of the gang.

Did you all see the swell writeup (with photo) of Hugh Miller on page 18 of the December, 1942, USDI Personnel Bulletin? It tells the world what all the rest of us have known about Hugh for a long time.

Sadness enters the report this month with the news of the death of Evon Z. Vogt, Sr., of a heart attack January 26. E. Z. was trying to push his car out of a mud hole when stricken. One of the Boss' right-hand men in the "early days" of the Southwestern National Monuments, E. Z. held down the custodianship at El Morro for many years. Until about a year ago he edited a newspaper in Gallup, but recently returned to Ramah as superintendent of the Navajo Indian Agency located there.

Davey and Corky Jones have taken on a self-appointed duty of writing letters to Navajo Indian boys from the vicinity of Wupatki who are in the armed forces. Since the majority of the older Navvys do not write, their boys in the Army and Navy would be entirely without news from "home" were it not for the kindness of the Joneses. Chalk up another "job" for national monument custodians.

When Davey and Corky returned to Flagstaff from their trip to Albuquerque and Santa Fe, they found 26 inches of snow, and the flakes still falling. They report that the Beaubiens had been snowed in for several days, but managed to break through to town. After reporting in at her office, Lois headed back toward Walnut to find and repair a break in the telephone line. Keeping telephone lines in repair in the winter is one of Lois' specialties. Just another HCWP sideline. Corky reports for those who know them that Tad and Mary Jane Nichols, of Tucson, have a new baby daughter whom they have named Nancy Ann.

From Tucson, also, comes word that Carleton Wilder (seasonal Saguaro) had an accident that took an eighth of an inch off the end of one of his fingers. He says that the part that is left keeps getting in the way when he is trying to type. Carleton is Secretary of the Arizona Historical and Archeological Society and may be found at the Arizona Museum on the University of Arizona campus.

An injury of more serious nature was suffered by Gene Stonehocker (see Casa Grande report). An operation to correct the rupture is necessary and was planned for the latter part of January. However, letters signed by Gene have been coming through as this report is written, so it is assumed that he has not yet gone to the hospital. It seems strange to have Gene laid up in the repair shop, and the whole gang wishes him a rapid and comfortable recovery.

Hunter Stratton pops up again in Paul Beaubien's report this month. At least, we assume that it is the same Hunter who was maintenance man at Chiricahua and resigned last year to enter war work.

Picture of the month is the look of satisfaction on the face of Clyde Peshlakai after safely storing the official Wupatki rain gauge in the garage out of the weather. It must have been a great comfort to Clyde to correct the negligence of the custodian who had been letting it sit around outside all these years, right in plain sight, too.

We would like, also, to have a picture of the expression on Davey's face when he learned that the smallpox "scare" which caused him to be vaccinated and spend several uncomfortable days and nights suffering from the effects, was just a false alarm. Davey doesn't give many details about the episode with the "man with the gun", but we have learned that the individual turned out to be an ex-convict, which may account for his aggressiveness with the weapon. Davey may have had a closer shave than anyone realizes.

Charley Wyatt and family stopped at Headquarters en route to Kilgore, Texas, where he is putting his training as a mining engineer to use in a war industry. Ann has quite recovered from her set-to with the razor which, we have learned, she encountered in the bathtub. Apparently the razor fell off the washbowl into the bathtub where it got tangled up in Ann's toes while she was taking a bath. At the time of the Wyatts' visit, Ann was having trouble with a vaccination which was flaring up after it had apparently healed normally. Note: Cha-dee can whistle.

Ted and Cecelia Sowers have taken over at de Chelly, and Ted is doing yoeman service for the Southwestern Monuments Association there. Ted seems to fall heir to checking records and taking Association inventories whereever he goes.

The radio at Chaco is proving its worth in a way not anticipated when it was installed. Originally established to give El Morro a link with the "outside", the Chaco radio is now a safeguard for McNeil who, due to changes brought about by the war, is practically isolated. The inside is now out and the outside in with George Baxter and family comfortably "set" in a substantial house at El Morro.

Harry Linder of Parke's staff has been appointed Assistant Scoutmaster of a Santa Fe troop, and is doing good work with the boys who are very fond of him. Harry recently attended a Federal Employees organization roller skating party and was the hit of the evening. Harry had never been on skates before and kept the group in an uproar all evening.

GENERAL

The following report regarding forest fires was prepared by Lawrence F. Cook, Assistant Chief of Forestry:

"The need for intensive and well directed forest fire prevention effort is of more importance today than ever before. Manpower for fire suppression is critically limited, and every fire threatens national and local security. Anything that we may be able to do to prevent fires is important.

"A review of our individual forest fire reports indicates that a very large number of the persons reported as responsible for fires were not "tourists" in the generally accepted sense. In the past the Service has devoted much of its fire prevention effort toward the park visitor, and many of our men seem to believe that the visitor is the one primarily responsible for our fires. Some areas have analyzed their fire sources with care and are attacking the basic causes intelligently and successfully. Others apparently have attempted little along these lines.

"In order to ascertain what proportion of our fires are caused by people other than visitors, a tabulation has been made of all man-caused fires starting inside National Park Service areas during the past three years. Five classes of individuals were recognized--travelers, employees (National Park Service, Operators', and Contractors'), residents (including employees' families), nearby residents, and others (an unclassified group). In some cases a little guesswork was required inasmuch as some reports were not specific. Each fisherman, hiker, picnicker, camper, hunter, and rider fire, unless specified in the narrative, was classed as traveler caused, so this group undoubtedly includes many which belong in more local classes. It is also quite evident that many fires were placed in the traveler category by the reporting officer due to lack of evidence to the contrary.

Some of the features noted in the analysis which seem of sufficient importance to use in future fire prevention planning are the following:

"1. For the Service as a whole, the traveler group was apparently responsible for only about 47 per cent of the total number of park man-caused fires, while 53 per cent were caused by people who live or work in or near the parks. For Region One, more than 65 per cent were caused by more or less local people and only 35 per cent by travelers.

"2. In Region One, of the 65 per cent caused by local people, those living near the areas constituted the largest group, apparently responsible for 37 per cent of the fires. Residents in the areas apparently were responsible for 14 per cent, employees for 8 per cent, and railroads, etc., for 6 per cent.

"This analysis of responsibility for fires suggests several approaches to a more intensive man-caused fire prevention campaign, among which the following should be considered:

"1. Intensive effort to prevent visitor fires should be continued. We apparently have been successful with methods used, but the American people are notoriously careless with fire and require constant reminders of the risk created by their presence in the forest. No relaxation of the present prevention effort is suggested.

"2. The most important additional step needed to reduce the number of fires is to find a means of reaching the employee, resident, nearby resident, and railroads with a prevention program that will produce results. It is a difficult problem, and the approach must be quite different from that used with the visitor. Local people have been subjected to a generalized fire prevention education for a long time. They have had experience with fire in the woods and have seen the

adverse effects (and perhaps from their viewpoint the supposed beneficial effects) of fire. The farmer, fisherman, camper, woods worker, and rural dweller are all more or less familiar with the rules regarding care with fire, and the statement "familiarity breeds contempt" is perhaps the key to the problem of their carelsssness. They would resent any hint that they, personally, might be careless or responsible for the start of a fire, although they often take chances with fire, and apparently some do not actually recognize hazardous conditions or acts. Because of their belief that they are familiar with the proper uses of fire, they may be a much greater threat than the tenderfoot, but also are much more difficult prospects to whom we must sell prevention.

"Smokers continue to be the greatest source of park man-caused fires with both travelers and local people apparently about equally responsible. Fires resulting from debris burning, incendiarism, and miscellaneous causes are entirely a local problem, and these intentionally set fires are responsible for the largest area burned. Campfires are largely a visitor problem, but some are caused by local people. Railroad locomotives have been the source of several fires in certain areas and require local action.

"It is appreciated that you and the local protection personnel of some park areas have given attention to this problem of local responsibility for much of our fire business, but perhaps other areas have not fully appreciated how much of the problem is not now being met by a generalized fire prevention program. Perhaps we have been scattering our shots, where more concentration on the worst localities, or potential sources, would be of greater effectiveness. No general pattern of causes or individuals appears to exist for the parks as a whole. Each area should analyze its own problem. The fine results attained at Mammoth Cave and some other areas, where the local problem has been attacked intelligently, indicates what can be accomplished quite quickly, even where carelessness has existed for generations.

"The problem of the outside fire, both those that are confined outside, and those which have entered the parks, cannot be overlooked. We may not have the same direct opportunity to undertake intensive prevention, but we certainly need to do all we can, either directly or in cooperation with other protection agencies, to stop these fires from getting away. They are caused very largely by local individuals.

"It is strongly urged that the foresters give as much attention as possible to this problem, and assist the local protection staffs in working out effective prevention programs before the beginning of the next fire season. We shall be glad to receive any suggestions that you may consider useful in furthering prevention efforts, either locally or for the Service generally."

January 1942

DECEMBER 1942, TRAVEL RECORDS

Station	Jan. 1943	1943 travel yr. to date	Jan. 1942	1942 Travel yr. to date
Arches (not received)	0 *	230	63	625
Capulin Mountain	500	2500	500	7500
Chiricahua	68	864	158 166**	2039
Natural Bridges	0 *	47	0 *	0 *
Organ Pipe Cactus	3546	13081	950	3610
Rainbow Bridge	0 *	0 *	0 *	0 *
Saguaro	297	1558	1425	4780
Sunset Crater(snowbound)	0 *	1007	4	1430
White Sands	1073	9840	2931	11177
Total Biol-Geol	5484	29,127	6197	31,161
Aztec Ruins	159	1115	110	1483
Bandelier	29	1118	44	962
Canyon de Chelly	8	134	13	415
Casa Grande	526	3136	1765	5689
Chaco Canyon	0	83	0	100
El Morro	0	85	0	199
Gila Cliff Dwellings	0 *	10	0 *	10 *
Gran Quivira	21	171	86	502
Hovenweep	0	18 *	0 *	30 *
Montezuma Castle	112	713	225	2115
Navajo	0	16	0	34
Tonto	146	1017	483	2086
Tumacacori	314	1707	780	2395
Tuzigoot	217	1366	389	2021
Walnut Canyon	174	1643	176	2025
Wupatki	15	222	34	598
Yucca House	0 *	10 *	0 *	20 *
Total Hist. & Arch.	1721	12,594	4105	20,684
GRAND TOTAL FOR ~~DECEMBER~~ January	7205	41,721	10,302	51,845
Last Month	900 2	34,516	9,601	41,543

* Estimated Travel

** Adjust for erroneous October report.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

March 15, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

February narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, By Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the entire month at the office carrying on routine interpretive activities for Southwestern National Monuments and the Region Three Office. All current projects were maintained, and the library and Southwestern Monuments Association activities advanced.

Archaeologist Steen remained at Casa Grande National Monument, spending the month on Ruins Stabilization work and completing odds and ends in the revised museum installation. Manpower difficulties interferred with the progress of the Ruins Stabilization project.

Extension Services - Radio Talks. Two talks were given during the month, one to the Santa Fe Kiwanis Club on the National Monuments of the Sonoran Desert Area; and one to the Episcopal Church Cub Scout Pack of Santa Fe to 43 children and adults on the subject of reptiles. Informational leaflets on rattlesnakes and Gila monsters were mimeographed for distribution in response to requests.

New or Unusual Activities. Region Three stocks of photographic film were inventoried and a recommendation made as to disposal of out-dated stocks so that they might be utilized before becoming defective through age. The CCC liquidation crew was assisted in inventorying Region Three Office publications. Operation of the mimeograph machine continued to the end of the month as an aid to the short-handed Chief Clerk's staff. Black-and-white negatives were made from 35 millimeter Kodachrome frames as an aid to the Region Three Park Planner's Staff.

Cooperative Projects. Assistance was given to the Arizona Archaeological and Historical Society in soliciting the preparation of manuscripts for publications.

Library. The project of accessioning and cataloguing publications into the Loan Library advanced satisfactorily. Since the beginning of the project, 1,088 books have been accessioned, and about 800 catalogued. The majority of publications on loan to various staff members of the Region Three Office were accessioned, catalogued, and reissued. Forty-seven additional publications were received during the month. Loans of books to field men were stimulated,

and several monuments submitted inventories of library books at the monument branch libraries. A number of loans were called in.

Southwestern Monuments Association. All affairs of the Association were kept current. An inventory of all publications on sale under the auspices of the Association was taken and a report made to the Arizona State Sales Tax Commission as required by law. Association consignment accounts were reduced, stocks transferred from over-stocked monuments to areas having satisfactory sales, and the Association affairs otherwise placed on a restricted war-time basis.

Status of Archeological Projects. Ruins Stabilization progressed slowly at Casa Grande National Monument under the supervision of Archaeologist Charlie R. Steen. Mr. Steen made a change of outline of Ruins Stabilization projects in order to meet conditions imposed by labor shortages, gasoline and tire rationing, and shortages of construction materials. Mr. Steen completed and submitted a report on the Ruins Stabilization project completed at Inscription House in Navajo National Monument.

Photography - Visual Aids. A staff member made a number of black-and-white negatives from Kodachrome transparencies as an aid to the Region Three Park Planner's Staff.

Office Visitors. The following Park Service visitors were recorded at the Naturalist's Office: Custodians Toulouse, T. C. Miller, and C. A. Thomas; Superintendent Nusbaum.

Reaction of Visitors to the Interpretive Program as Influenced by War-Time Conditions. Reports from the field indicate several interesting developments. Although tourist travel in general is greatly reduced, the number of visitors in uniform have increased, especially officers with their families on official travel status between stations. These people show great interest in interpretive programs at the monuments and their requests for informative-literature greatly exceed those of an equal number of pre-war type visitors. Field men report that this high interest stimulates the improvement of the interpretive program. Museum use has increased at monuments where the museum is close to traveled highways and features of the monuments are some distance away. Many visitors who feel that they have insufficient gasoline to enable them to visit the features of the monument, devote considerable time and energy to a study of the explanations as shown in the museums. Gasoline rationing has caused many people to save gasoline for special trips and they make an effort to get as much enjoyment as possible from these trips, for which National Monuments are frequently the major objectives.

Technical Aid to Administrators. Superintendent Nusbaum was aided in preparing an outline of duties for a museum attendant. A report was made on areas where data might be obtained for studies relative to overuse.

Miscellaneous - Overhead - Routine. Sixty-three letters were written during the report period. The usual number of requests for information, photographs, and other data were filled.

Regional Naturalist Activities. The prospectus for the Bryce Canyon National Park Museum Plan was reviewed, and the interpretive outline for the Cedar Breaks Master Plan studied. The Director's proposed program of grazing and wildlife research was promoted in Region Three.

Projects Planned for Next Month. Unless Archaeologist Steen arrives at Headquarters, there will be little opportunity to undertake new projects or to carry forward any except the library and Southwestern Monuments Association. With Steen's arrival, a trip will be made to Carlsbad Caverns National Park to study the interpretive and guide problem there. Also with Steen's arrival a program for bringing PCP sheets on interpretive projects for Southwestern National Monuments up to date will be established.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors for the month, 27; travel year to date, 304.

Trespassing problems have been plentiful this month. Horseback and pickup patrol has been carried out with some success. Gravel has been hauled in for the driveway and service yard, about 50 yards. Sixteen trees have been planted near the residence and storage house. Also some shrubs have been transplanted. Five loads of gravel have been hauled and spread on the road in front of the custodian's residence.

The old Model A Ford was received from Canyon de Chelly. As soon as I can get the time, the motor from this will be installed and hooked up with the water pump.

Three telephone poles have been set for a telephone to the residence. But no telephone yet.

The weather hasn't been so bad, but it is still freezing ice almost each night. A few light showers and a few flakes of snow have fallen, but not enough to produce any moisture to speak of.

All buildings are gone from NP-7-U, except the maintenance shop. This will be moved as soon as I can secure help. This is something that is just about a thing of the past here.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 147; travel year to date, 1262.

General. Tool and equipment inventory was completed during the first part of the month and was ready to mail when memorandum was received regarding inventories of both expendable and non-expendable supplies, which was due on February 28. Submission was postponed and inventory of expendable items was made and all are ready for forwarding to headquarters on that date.

The custodian made an official trip to Headquarters between February 21 and 23, using private transportation.

Weather. Weather for the most part of the month was like spring. The maximum of 66 degrees occurred on February 21, and the minimum of five degrees fell on the night of February 9. Six inches of snow fell during the month in three storms. The total precipitation amounted to .7 inches.

Use of Monument Facilities. Travel for the month totaled 47 cars, containing 147 people, broken down by States as follows: Colorado 67, New Mexico 59, California 5, Iowa 1, Kansas 2, Illinois 1, Ohio 5, Oregon 2, Texas 1, Tennessee 2, Utah 1, and Arizona 1.

Our ticket sales totaled 46 permits, as against 89 permits for the same month last year. No waivers were issued during the month, but two members of the Armed Forces and 19 children were admitted free. 52 people visited the museum and received information without charge, and an estimated 27 people visited the area after closing time. Sixteen parties consisting of 69 people were guided through the ruins, and 15 parties with a total of 58 people visited the museum. Guide time for personnel for the month was as follows: Custodian Miller - 12 hours; Ranger Mahan - 18 hours. The total revenue collections amounted to $12.97, of which $1.47 was Federal Tax.

Maintenance and Construction. Work on quarters was carried almost to completion during the month. Woodwork in both bedrooms was stained with a mixture of gasoline and tar, while woodwork in the bathroom and hall was painted a "beautiful orange", which was the only paint we had on hand. All plaster surfaces in the rooms were given two coats of casein paint.

The furnace started acting up during the month and on checking it was found that the pipe from the furnace to the flue had fallen and all the heat was rising to the ceiling of the basement, causing a strong resin odor. This was corrected and it is functioning well again.

A new battery was received for USDI No. 1235. We had been running for the last three weeks on a rental battery.

National Park Service Visitors. Custodian McNeil of Chaco Canyon National Monument, accompanied by Asher Crowley, a rancher of that area, was in on January 26.

Publications Received. One hundred copies of the 16-page booklet on Aztec Ruins National Monument were received during the month. These are being handled by the Southwestern Monuments Association for sale to visitors, if and when they come.

HOVENWEEP and YUCCA HOUSE, by T. C. Miller, in charge.

No attempt was made to inspect these areas during the month due to adverse road conditions.

BANDELIER, by C. A. Thomas, Custodian.

Visitors this month, 43; travel year to date, 1161.

Headlines this month

MOUNTAIN STATES T & T APPLIES FOR PERMIT TO RUN TELEPHONE LINE THROUGH OTOWI SECTION OF BANDELIER

BULL DOZER CRASHES OVER 60 FOOT CLIFF - DRIVER UNINJURED

WORKMAN FATALLY CRUSHED BY ROCK SLIDE

WORK ON WATER INTAKE BEGINS

FIRE SEASON OPENS WITH BLAZE ON OTOWI SECTION

The above outlines the hot stuff that has been coming over the plate during the month. And we thought Bandelier was going to be a nice quiet spot for the duration - what with no visitors and no construction program going on!

To date, we have had very little winter. In spite of a cold snap in January, the winter months have been warm and open. Considerable wind was experienced in February and the ground is now dry with little or no snow even in the high country. Minimum temperature of 7° was registered on the 11th, and maximum of 63° on the 19th. Only .4" of moisture fell during the month.

New developments on the Otowi Section have kept the monument force busy during the month. The Army Engineers are carrying on a $50,000 improvement project on the Otowi Hill Road under special use permit from the Service. The road is being widened to 20 feet up the hill, drainage structures are being installed, and the whole road given a base course of gravel. It may be paved in the future. Army Engineers are working closely with National Park Service representatives on landscape matters. The custodian has made numerous trips to the Section to confer with the Army representatives and the contractor.

Two days were spent with the location engineers of the Mountain States Telephone and Telegraph Company who are applying for a special use permit to run a telephone line across the Otowi Section to the Army Base at Los Alamos. The Army regulations will not permit the Forest Service to maintain their telephone line across the Military Reservation. To avoid the Reservation, the Forest Service has been forced to ask for a permit to detour their line through our land on the Otowi Section. One day was spent running a reconnaissance with forest officers to find a permissible location for the new line. We regret these developments, but must write them off, as a part of the sacrifices the Service is making for the defeat of the enemies of mankind.

In the urgent haste to complete the Otowi Hill Road, the Army Engineers provided a portable generator, strung flood lights and ran the job 24 hours a day. It is nearly finished as the month closes. In the race against time, it was inevitable that some accidents would happen. A bulldozer operator was killed on the night shift February 13 by a falling section of cliff that overhung the road. At another time, a heavy bulldozer lost its balance as it was pushing waste over a 60 foot cliff. The driver threw the machine into reverse as he saw he was going over. The heavy machine descended in a shower of boulders and buried its nose in the road below. The driver escaped unhurt, but it took several caterpillars to dislodge the nose of the bulldozer from the earth.

Twenty-seven cubic yards of gravel were transported from the Rio Grande River 22 miles away and we are still hauling as the month ends. The gravel will be used to improve the filter bed of the water intake system a mile and a half above Headquarters. It will take plenty of time and work to transport the gravel up the canyon by pack mule to the site of the intake. The force at Bandelier cut and peeled 50 telephone poles, 50 barn logs, and 25 cedar stubs for telephone poles on the Ramon Vigil Grant during the month. We will have enough material on hand to rebuild some of our badly neglected telephone line as soon as the timber is cured. It will take 200 more barn logs to build our barn for Government horses and mules.

Superintendent Richey visited the Otowi Section twice during the month to confer with Army Engineers on the road project and telephone rights-of-way. Landscape Architect Kell spent one day inspecting the road work on Otowi Hill and conferring with the Army officials and the custodian.

Jim Fulton, former forestry foreman at Bandelier, visited the monument during the month. Jim entered the Army February 23 and is located at Fort Bliss, Texas.

Three days were spent on the maps and plans file. All of our numerous plans and maps are now filed according to subject and number. A good deal of time was spent on patrol during the month. South Mesa was patrolled on horseback. One patrol was made to the Rio Grande Canyon. Nine motor patrols were made of the Otowi Section. On one patrol, the first fire of the season was discovered and controlled on the Otowi Section. A careless workman on the night shift had lighted a warming fire and left it. The fire had spread to some stumps and logs, but was quickly brought under control. All efforts to locate the guilty party were unavailing. The Army wouldn't let me go into the Reservation to try to find the man. Warning signs were posted in conspicuous places on the Section and the Army Engineers promised to cooperate in preventing a recurrence of the offense.

The Custodian visited Espanola and the Pueblos to renew our cooperative fire control agreements with the Forest Service and the Indian Pueblos. A five-year program for fire hazard reduction in the blow-down area was drawn and presented to your office. Plans, Project Construction Program sheet, and estimates were prepared and submitted to your office for emergency telephone lines to the areas of greatest hazard in the blow-down section.

During the coming month we plan to finish hauling gravel for the intake; pack some of it, if possible. The custodian plans to spend considerable time organizing and training squads of men for the Forest Fire Fighters Service. All fire plans will be brought up to date. It is rumored that the Regional Fire School will be held at Bandelier early in May. Plans are being made to train the fire fighters of the region. The monument will officially open March 1 and we'll have to keep a weather eye open for visitors who may defy all the laws of gravity and the OPA and find their way to us. The campground has to be cleaned up and stocked with wood, all grounds cleaned of tumble weeds and the winter's accumulation of debris. The water tanks will have to be cleaned and the septic tank pumped out and cleaned. Considerable time will have to be spent on patrol and inspection of Army activities. Our fire trails will have to be cleared and the telephones made ready for what seems to be an early fire season. Fire equipment will have to be unlimbered and put into working order. If it looks as if we'll run out of something to do, we'll run up to Arches and down to Casa Grande and shoot the breeze with Mac and Al for a while.

CASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 696; travel year to date, 3,832.

Weather. It appears that spring has arrived at the Casa Grande. The bats in the ruin are out every evening; the ground squirrels made their appearance on the 12th; the Great Horned Owls have again taken up housekeeping. The old lady disappeared from their home in the superstructure on the 6th, taking up new quarters on the nest atop the ruin. If the stork visits owls, we should have some owlets before long. The old man continues to occupy quarters in the superstructure.

Both maximum and minimum temperatures have been above those of February,

1942; there have been few days when a fire was needed except in early mornings and late evenings. A maximum temperature of 90 degrees was recorded on the 20th and a minimum of 22 degrees on the 10th. Last February had one day above 80, 16 above 70 degrees, and 5 days with a minimum below 23; this year 10 days have been above 80, and 17 above 70.

Rainfall for the period was .11 inches as compared with .26 inches for the same period in 1942.

General. Ranger Sallie Brewer entered on duty the 16th and, between guiding and inventory, has been well initiated into her job.

Custodian Jim Brewer entered on duty the 10th and spent his time here in helping at the museum and in the shop.

Custodian Wilson of Organ Pipe arrived the 17th and spent two days at Casa Grande for repairs to his pickup. Brewer returned with Bates to help in the construction at Organ Pipe.

Custodian Caywood was up from Tumacacori on January 26 and picked up the safe and map folders.

Superintendent Richey arrived late the evening of the 11th. Regional Forester Carlson joined him here on the 13th and they both left for Tonto on that day.

Henry Chee Dodge, Chairman of the Navajo Tribal Council, visited the ruin on January 28.

Administration. The inventory is almost completed, but has kept every one's nose to the grindstone. The sewer pump was repaired. The shed being used for storage of lime and plaster sprung a leak in the roof, which was fixed. The opening of the comfort station sewer line has become a routine duty, as the salt bush roots continue to stop it up at regular intervals.

The well was chlorinated the week after receiving two red reports; the next week's report was white so apparently it is OK now.

The former Naturalist Office has been cleaned and all Casa Grande material has been taken to the museum.

Work on museum displays has been continued by Archaeologist Steen. Ranger Guillet completed a painting of "Kino at Casa Grande" for the lobby of the Museum.

Stabilization work on the ruin has been continued and will be included in Steen's report.

Visitor War Reactions. Travel has been affected as expected by rationing programs. There was an increase in the number of military men in uniform who visited the ruin. Most of these show a great interest and compose many of our most interesting parties. We continue to catch many officers en route to new stations.

Use of Monument Facilities by the Public. We had visitors from 26 States with a decrease of 47.94 percent for the travel year to date. 696 people visited the monument; of these, 414 took the ruin trip. We had 106 ruin trips, averaging 41 minutes per trip, and 62 museum talks with an average of 17 minutes each. There were 282 runarounds and unattended visitors. These figures are well above last month's indicating that travel is picking up a bit. Ticket sales were 275 for the month.

Projects for Ensuing Month. Include painting of museum, continuation of ruin stabilization; instruction will be given Ranger Brewer on the museum cataloguing, which will also be put under way. If travel continues to pick up, more time will be necessarily devoted to guide work.

Headquarters Shop, by F. E. Stonehocker, Mechanic.

During this month the motor for USDI 1260, the Plymouth Coupe, was completed and installed, the radiator and front fenders were replaced, the front axle assembly was overhauled and replaced, several days were spent in the removal of part of the seven coats of paint found on the body, and some welding and straightening of fenders and body.

Two Ford radiators have been sent in to Phoenix for repairs and cleaning. They have been placed in store for future use. It is almost impossible to get repairs of any kind anymore and makes a lot of lost time in repair jobs. The starter on USDI 1457 was overhauled and replaced.

One day was spent in repairing the concrete mixer to be used in the stabilization job at Casa Grande Ruins. The boys have kept it running like a clock. One day was spent in the cleanup and repair of the gasoline-powered paint spray outfit, the high powered gasoline we are now getting had varnished it up to such an extent that it was necessary to dismantle the motor and clean it up with alcohol (thanks to the naturalists' supply). The motors were removed from USDI 1232, and 1233, torn down, and checked for repair. Repairs have been ordered for one to replace in USDI 1232 for use at Natural Bridges this coming season. The brake drums have been turned out and the front axle removed and overhauled.

A base has been construcred by welding angle iron in the form of a box for the sides frame and the pump and engine installed. As soon as we receive the parts, will complete this unit and sent it to Chaco Canyon. In the meantime, we hope the custodian can manage to keep the old unit in operation. Bates Wilson came up to Casa Grande on the 18th of this month and was immediately put to work "ON HIS OWN PICKUP." Jimmy Brewer and Bates make a good team. We ground the valves, installed new piston rings, and found two connecting rods in bad order. These had to be replaced, and just as they thought they were ready to go to Organ Pipe, we found that the front axle needed some attention. It was rebushed and tie-rods straightened, and in checking the tires found it necessary to replace two. The tires on his truck were passenger type and, when worn, will not take the tortuous trails, called roads, down Mexico way. One tire was shipped to Custodian Peavy at Saguaro for use on his dump truck and one tire was shipped to Custodian McKinney at Arches to replace the one reported beyond repair. It will need recapping but is a good carcass.

The Kenmore ironer was repaired and put into service the early part of the month. The mimeograph has been thoroughly cleaned and stored in the warehouse. The dump truck being used on the stabilization job at Casa Grande ran into a lot of hard luck when the boys got stuck in the sand pit. It will require extensive repair to the differential and a new rear axle before being put to work again. Charlie Steen made a trip to Phoenix for the necessary parts but was unable to find all that was needed. They have been ordered from another source. We should have the verdict by tomorrow. While the truck was laid up, I removed the pan and one head and made an attempt to secure the sleeve which had loosened, the cylinder was bored ten thousandths too large when the tungsten carbide tip loosened from the cutter changing the angle, and throwing it out of adjustment. A new set of ignition wires were installed on the left bank of cylinders. An oil line salvaged from one of the trucks to be disposed of as salvage was sent to Caywood at Tumacacori for use on his pickup. He has been unable to purchase one in Tucson or Nogales.

At this writing, the store inventory of the pool warehouse is complete (thanks to Sallie Brewer) who typed it for me. I will try and get a final check on it within the next couple of days and get it in the mail. Al Bicknell helped me in the shop for one and one half days, and Jimmie Brewer spent about four days in the shop. The help was surely appreciated, an attempt was made to hire a mechanic for a few days to help out, but none available.

CHACO CANYON, by Irving McNeil, Jr., Custodian.

Visitors this month, 22; travel year to date, 105.

There were a total of 22 visitors, who arrived in 6 automobiles and who formed six separate parties, at this monument during the past month, and all cars were from the State of New Mexico. The custodian gladly spent a total of nine hours with them. Nearly all the visitors, apparently, were on other business, and stopped to see the ruins en route. All parties were exceedingly interested, and seemed to appreciate the literature. In fact, most of the parties asked for literature and maps before the Custodian brought them out. There is no necessity in going into details as to how the visitors were snared. There is quite an art to it, which this custodian is just beginning to learn. Of course, there was no art involved when a car was found with a flat, no spare, and no tools --"You see um ruins, we fixum tire"!

Grading the roads does not seem to entice visitors, but the neighbors appreciate it, and stop by the house and express their thanks. The roads were graded recently, and it snowed that night. It was a light snow, however, and not much harm was done to the roads and the ranchers were grateful for the moisture in a particularly dry winter.

This month, the weather has been warm and agreeable. The high mark was 71 degrees, which was reached on February 21.

The custodian is getting to be an old hand at setting up overturned trucks. Again, this month, a large truck upset in the Escavada Wash. This one was loaded with feed which made the wreck a bit "corny". The Chaco truck went into the frozen Escavada and set right the disabled truck, but when time came to get out of the wash, it had thawed and horses were necessary to get the trucks out.

The custodian appreciates the two-way radio. Often, the voice from El Morro is the only one heard during the entire day. New batteries were installed, and now there is no doubt that there is someone at the other end of the waves. The receiver can be held at arm's length, turned away, and every word can be heard that is coming over the radio.

Chaco had a fire which might have been serious, but it was suppressed in time. The fire was in the kitchen of the residence, but it did not start with the custodian's dinner burning.

The Chaco CCC Camp is fast becoming a thing of the past. A crew came in more than a week ago and the buildings are being moved to Las Vegas, New Mexico. The same crew has taken down a number of camps, and they surely know what they are about. They run all over the building, inside and out, like a lot of squirrels and -- presto -- the building is down.

The monument has many projects for the ensuing month, one of the most

interesting of which will be the gathering together and training of a group of Navajos for forest fire fighting. Most of them, probably, will not be able to speak a word of English, but that won't hinder their fire fighting abilities!

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month, 198; travel year to date, 1062.

Visitor Reaction. Travel is mainly a Sunday business and, from the information received from the visitor, we find that they are beginning to place a different value on the use of their cars since gas rationing, many forego the use of the car on short trips and by saving on short trips are able to make an occasional trip into the country or to neighboring recreational areas. Many find that the gas allowance is more than they expected; some even contemplate returning coupons to the ration boards. The average opinion believes a trip into the mountains or scenic areas is necessary or more important as a means of relaxation. Of the 198 visitors, 126 were from out of the State indicating a desire to see the scenic attractions in the neighborhood while in the region.

Maintenance. Much time was given to cleaning the road gutters and resurfacing of the highway as generally this is the period of the year when we have quite a lot of moisture and a blocked gutter may cause the loss of a section of roadway. To further this work, Jesse G. Marble was hired five days a week for the entire month. Plumbing took some time, and at present we are trying to unclog a sewer drain from the basement of residence No. 4.

The custodian took six days of annual leave to aid a neighbor in gathering and shipping cattle due to the dry range conditions. There is a general reduction of herds due to the dry period of the past year in this region. Many stockmen believe the ranges will be better for a rest even though the Government desires an increase in production, the high prices practically eliminates the stockmen from restocking even if they get the rains as it places them in a dangerous position if the prices drop, an experience most of them went through during the last war.

Visitor Contact. Chuck Richey and Stew Carlson were in during the month on an inspection and the custodian was given instructions on what constituted a visitor contact, etc. While the custodian considered the instructions pertained to a slight padding of the figures, it was finally decided that the educational contacts are pretty slack and at the time they were even considering counting the 800 head of cows that I had been passing the time of day with, since it is not necessary to quote the actual language used, I leave it up to Natt whether he desires to add them to the count. As to the time of each trip one can count eight hours to the party and we had six parties. Average party 130. From all appearances they all had a running good time.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 10; travel year to date, 95.

General. The most important news around El Morro this month is the fact that we had two parties of visitors, the first since gas rationing started. The weather has been very changeable the past month. We have had several snow storms, one a regular blizzard. The school bus couldn't get home that evening

due to the snow drifts, so the teacher, children, and driver spent the night at various nearby homes. The roads from Gallup have been recently graded and are in fairly good condition.

Weather Statistics. Maximum temperature 65, on February 21. Minimum 2 below zero on February 11.

Maintenance, Improvements, and New Construction. I made a trip to Gallup in the pickup during the month, taking in the tires off the dump truck for inspection.

We have found that our Battery Charger for the radio is badly in need of a new bearing and connecting rod. Don't know how long it will be before we can get it fixed, so we have temporarily rigged up another outfit consisting of a Maytag washing machine engine and a car generator. It doesn't get the batteries charged as fast as the other engine, but maybe it will keep our radio on the air until the other can be repaired.

Have installed two Venetian blinds in the office. These blinds were originally ordered for the bedroom of the residence, but neither the former custodian or myself have been able to find a way to put them up and still get the windows open.

Snows caused a shutdown of work on the water project for a while. Have had six men working the last few days pumping out water and mud and continuing with the cleaning of the pool.

Projects for Ensuing Month. Will try to finish the cleaning of the water pool. Hope to find time to do some sign painting.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr. Custodian.

Visitors this month, 5; travel year to date, 176.

Visitor contact time: custodian, 40 minutes. Travel by States: All New Mexico.

Continuing and Routine Projects. The inventory of the official monument library was completed this month and for the first time we have a complete workable list on 3 x 5 inch cards of every item belonging to this monument library. A complete master file of stabilization photographs was made up for headquarters files, and duplicate cards made for Gran Quivira, although photos remain to be attached to these latter. From the 11th until this date, I have been on special assignment to Headquarters, and will again report for duty there after the 1st of March.

Cooperative Projects. Spent the 8th, 9th, and 10th, on a cooperative project with the Forest Service and Soil Conservation Service in making a farm production survey to aid in crop plans for this coming season, and to aid the farmers in knowing more about their part in the defense and war effort. Was one of the many custodians who were appointed local coordinators for the forest fire fighting service, and have already contacted the local forest ranger in Mountainair towards organization of a fire crew at Gran Quivira. Will also contact the forest ranger of the Lincoln Forest to the east of us as we can aid in fire suppression there. One day was spent in Albuquerque in which one thing accomplished was the contacting of E. P. Ancona of the Forest Service who is the State Coordinator of the FFFS; renewed old acquaintances and discussed our program here.

Continuing Projects. Approval has been received to investigate the primitive water system at this area. This work will be attacked as soon as reassignment to this area is made. Beyong this, nothing can be definite until special assignment to headquarters has terminated.

Forgot to report the broadcast over KOB, Albuquerque, this broadcast was made over the State College half hour at 8:30 p.m., February 8, 1943. In the broadcast, Gran Quivira was prominently mentioned in the discussion of the Claunch-Pinto soil conservation area.

MONTEZUMA CASTLE, by Homer Hastings, Acting Custodian.

Visitors this month, 193; travel year to date, 936.

General. Beaver Creek is high and muddy but so far it appears to be doing no particular damage. There have been several stormy days with rain but no snow. Weather statistics follow: Maximum temperature, 81; minimum, 20; mean maximum, 65.6; mean minimum, 31.8; clear days, 13; partly cloudy days, 11, total precipitation, 1 inch.

Administration. Since gasoline has been rationed and tires are so precious, we do not make the mile trips twice daily to open and close the entrance gate. As a result, we get the late visitors who arrive after 5:00 p.m., but Ranger Reed and the acting custodian alternate responsibility for them and nobody is turned away who wants to climb the ladders.

The major portion of the month has been spent on the project to photograph museum artifacts and exhibits. Negatives made this month, 154; total to date, 396. One hundred and seventy-five sets of pictures are complete. Each set includes the negative with its filing envelope and two print file cards with identification data typed on all three. A picture of the artifact is also attached to the museum catalog card. The Pictorial Index does not list classification numbers for matting, cordage, and other artifacts we have photographed, so it has been necessary to communicate with Headquarters to determine what numbers should be used. As soon as a few "strays" are classified, we can submit the sets completed.

Three different views of the Castle as post card pictures have been added to the list of items being offered for sale by Southwestern Monuments Association.

An inventory has been completed of all property, both equipment and expendable and reports submitted.

Ranger Reed took two days sick leave while he was down with a cold.

Maintenance, Improvements, and New Construction. The entire monument fence including both sides of Beaver Creek has been patrolled and was found to be in good order.

Culverts on the entrance road have been inspected and were found to be free of obstructions.

Loose rocks have been removed from the entrance road and damage done by water run-off repaired.

Use of Monument Facilities by the Public. Total cars, 49; Arizona cars, 35; total States represented, 15; foreign countries, Venezuela, and Honolulu; total visitors, 193. Number of tickets sold, 71; total revenue received, $20; members of the armed forces admitted free, 11; children admitted free, 9, of whom 4 were taxed.

Guide Service. Total contact hours, 46.50; Hastings, 22.25; Reed 24.25; ruins trips, 29 for 91 visitors; museum parties, 32 for 142 visitors; information service for 44 visitors. There were four parties of picnickers totaling 26 people.

Ranger Reed delivered an illustrated talk to 72 members of the Clarkdale Kiwanis Club at a guest-night meeting.

Ranger Reed's fame is spreading. One Sunday, twenty-five people from Camp Verde who had missed his talks there came to the monument to see his pictures.

Protection. Extensive procupine damage has been noted on both sides of the creek. On the east side of the monument two porcupines were seen eating the bark of a cottonwood tree and one was in a hackberry tree. Some of the creosote bushes along the visitor trail have been girdled and will die and attacks have been made on mesquite and sycamore. The location of two dens not far from the monument headquarters has been noted.

Projects for Ensuing Month. A project to begin March 1 has been approved for planting 200 post-sized willow cuttings from four to five feet long. Most of these will be placed between the visitor trail and the flood wall along the north side of Beaver Creek.

A coating of linseed oil will be given our directional signs and markers, and to the garage doors and facings.

Some maintenance work is planned for the trail leading up to the Castle ladder.

The photographing project will be continued as time permits.

Plans to organize the Forest Fire Fighters Service crew have been held in abeyance pending the arrival of F. Lee Kirby, State Coordinator, who is expected to have instructions outlining the project.

Visitor Reaction. Occasionally we get trainees from a nearby flying field. It is amusing to observe their qualms when climbing the ladders and to hear their comments on how much safer they feel in a plane.

NAVAJO, by Bill Wilson, Acting Custodian.

Visitors this month, none; travel year to date, 16..

This month last year, 2 visitors in 1 car; last year to date 36 visitors in 16 cars.

Weather. Monthly report time seems to be the signal for a snowstorm. However, only $2\frac{1}{2}$ inches so far, but it is still cloudy and spitting snow. During the period 20 inches fell representing $2\frac{1}{2}$ inches of precipitation. On the whole, February was very mild, the high on three days being 58 degrees, and the low on February 10, 1 below. Compared with last year, the month has been much warmer.

Road. Due to the mild weather with snow melting fast, the road has been very muddy. Our main recreation on our weekly trips for the mail has been taking off and putting on chains.

Radio. We are able to listen in on Paul and Davey with their new radio setup. If necessary, we could communicate with them through Window Rock.

Maintenance, New Construction, Miscellaneous. The new fire tool boxes were given two coats of paint and are now ready for use. All that remains is to equip them with tools and locks and pack one down to Betatakin. Considerable time was spent shoveling snow from paths and road. The usual maintenance was carried on and office work kept up to date.

Projects for Next Month. Hope to complete a corral this month. If weather and roads permit, would like to make a complete inspection of all three ruins. Will probably do some road work, too.

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 4162; travel year to date, 17,243.

Weather. One good rain fell on almost the entire area on January 27, but since then we have had a great deal of wind and everything looks about as dry as it ever did.

Travel. With each new rationing announced by the OPA, travel increases through the monument to Sonoyta. The 17 percent travel increase for this month was caused by the faulty shoe and the frozen frijole.

Roads. A good rain the day before the county started blading the monument road put the surfacing in perfect working shape. Five days were spent by the county in this work and another light rain on February 2 came just in time to keep the surfacing workable. At present the road is in excellent condition.

New Construction. The rains came and Bobbie Gray was able to help me with the framing of the dwelling at Headquarters Area. He worked one day with me and we completed three of the four walls. Bobbie's working day is figured by the sun and there are few cigarettes in between. Henry Kaiser has nothing on him.

A trip to Casa Grande was made on the 17th, where Gene, Jimmy Brewer and I did a quick overhaul job on my pickup, USDI 1259. Jimmy returned with me, via Phoenix, where he had an appointment with the Navy, and I with Mr. Lee Kirby, of the FFFS. I am certainly glad to get Jimmy's help on the building and hope to have a house with a roof by the end of next week.

Inspections. Dr. James L. Mielke and Dr. James W. Kimmey, of the Bureau of Plant Industry, Division of Forest Pathology, spent two days on the monument checking the progress of Bacterial Necrosis - Survey strips, and sample plots. One half day was spent with them on the trip to Cement Tank, where two of the plots are located. I am sorry I was not able to spend more time than a part of one day with them, but that half day was very interesting. In all the plots, they found only one plant, a Saguaro that had died in the last year.

An investigation of the Pincate Area was made by the Mexican Government, for the purpose of establishing a game refuge. This area, south of the border, adjoins both the monument and the Cabeza Prieta Federal Game Refuge and is thought to be the summer range of the sheep, antelope, and javelina that come into the United States during the winter. Results of this investigation are not known at present, but we hope that we will soon hear the area has been set aside for protection.

Wildlife. My first observation of Javelina hogs was made on the 12th on the Bates Well Road. I have now seen two rare things at Organ Pipe: "rain" and "hogs".

Visitors, NPS. Superintendent Richey arrived in Ajo, the evening of the 9th, loaded with Ajo gold (oranges and grapefruit) and stayed until the morning of the 11th. After a full day of inspecting the road, headquarters area (where the little house that wasn't there is supposed to be) and a trip to Alamo Canyon, I cornered Chuck in the evening and straightened out a great

many problems in my office work. I don't think Chuck likes office work any more than I do. The length of Jimmy Brewer's stay here is very indefinite, as a call from the Navy might come any time. Jimmy has been hunting a carpenter ever since he has been here so that he can fill his rating of carpenter's mate, but so far he has had no luck.

Projects for the Coming Month. The building at headquarters area will have priority this month, as I want to take advantage of Jimmy's help. Two routine patrols will be squeezed in at some time and during these patrols the map work will be continued.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 300; travel year to date, 2,800.

Visitors were mostly soldiers and their wives, sweethearts, and families, going to and from Army camps.

Roads in the vicinity and in the park have been in very good condition all winter although slightly chucky on account of the dry weather. Plenty of rocks have been falling into the road on the monument from the hillside, and the deer crossing the road and climbing the hillside above the road have become a nuisance kicking rock and cinders in the road.

Weather. Has been very nice all month and extra warm with only slight precipitation during the month.

A very bad fire hazard exists on the monument and we here at Capulin are holding our breath and crossing our fingers until we have some moisture.

SAGUARO, by John Peavy, Acting Custodian.

Travel this month, 576; travel year to date, 2,134.

Weather. We have had only one moderate rain during the month, most days are moderate to hot. Maximum temperature 90 degrees. Due to prevailing warm weather and the one light rain some flowers are beginning to bloom. There are a few ocotillo, one giant cactus noted, penstemon, Golden Hills, Desert Marigold, and Creosote bush in bloom at the present time.

Visitors. We have had 576 visitors this month, of these 177 were men in uniform. On the 10th, we had 150 Army men march around the Loop Road.

Cars Instate -- 47 Cars outstate --73 Total 130

Army vehicles ----------10

Horses and Riders ---------- 22

On foot ---------- 3

Men in uniform -------- 177

Guide time: 17 hours, 25 min; John Peavy, 16 hours; Marge Peavy 1 hr. 25 min

Inspections and Officials. February 6. Superintendent Richey and Associate Forester Carlson arrived in the afternoon and many problems were gone over that day. Mr. Carlson remained until the 12th, during which time we went over problems concerning the coming fire season and Mr. Carlson worked with Doctors Mielke and Kimmey in the cactus area on problems concerning the cactus disease. On the 8th, Superintendent Richey discussed the telephone line problem with Forest Supervisor Merker and Ranger McPhaul in the Federal building.

Cooperation with other Agencies. On the 15th, I conferred with local

USFS personnel and drafted and revised cooperative fire fighting agreement between the USFS and Saguaro National Monument. This plan has been submitted to the Regional Office for approval and signatures.

Roads. The Loop Road is in fair shape at the present time. I dragged it and removed rocks on the 26th, 28th, 31st, 5th and the 24th.

Improvements. I spent one day patching the house roof during the month. I tore down the ramada car shelter and re-erected it in the vicinity of th horse corral. I also removed the gasoline and fuel oil storage to this area.

One day was spent during this period in repairing telephone line in Davis Monthan Field.

Nature Observations. The Red Tailed Hawk is nesting at the present time. This economically important bird is quite prevalent within the monument.

Several Mexican Mule and White Tail deer have been seen along the Loop during the month.

Due to warm weather, several species of plants are blooming prematurely.

Noticed Changes to Visitor Reactions Due to the War. No changes noted.

TONTO, by E. C. Gipe, Acting Custodian.

Visitors this month, 192; travel year to date, 1,209.

Use of Monument Facilities. A total of 192 people visited the monument in 53 cars during the month, 19 being from the armed forces. 20 States were represented, 118 people visited the Ruins; museum 160, 25 contacts at the parking area and there were two turn-arounds. As last month, two thirds of the cars were from out of the State.

Personnel time. Custodian Gipe, 54 hours.

Visitor Reaction. The percentage of genuinely interested people continues high and interest in flowers and plants mounts as they begin to bud and bloom.

Weather. The first part of the month was on the chilly side but the latter part much milder with some really warm afternoons. Several rains; all night the 3d, a 24 hour storm the 9th, with hail and snow all forenoon, and a freeze of the water line the night of the 10th. All day rain the 17th, also 23rd, with low clouds covering us in completely.

Newsworthy visitors were Superintendent Richey and Regional Forester S. T. Carlson on the 13th.

General. Superintendent Richey went into monument matters thoroughly as it is easier to discuss and clarify on the spot than by correspondence. Carls took up fire control, equipment, posting of signs, and management in all matters pertaining to the safety of the area. It was a most satisfactory session and may it happen often.

New signs (fire) have been received for posting in strategic places throughout the area and an adequate supply of fire fighting equipment is on the way. Tonto will soon be in Class 1 A and ready to go to fires.

Made one trip to Globe this month to the Gas Ration Board.

Maintenance. Considerable road and trail work was done the first part of the month due to several periods of rain. Have been able to keep both in very good shape by ditching and clearing drains. Road is somewhat rough in consequence but still there, and upkeep after the weather settles will be much less strenuous.

A considerable stretch of pipeline has been covered in and hope to finish

it all before hot weather so that we can boil our own water instead of having it delivered that way. Have given the storehouse (scorpion haven) another cleanout and overhaul in checking thoroughly the equipment as requested by Headquarters, tenderly replacing all the bottomless water bags and perforated gasoline tins in safe places.

Museum. Received this month frames and glass for two Jo Mora Cartes to be displayed on wall. They have been hung over the fireplace just opposite the door with suitable information properly placed. Also received were pictures in color of Mr. and Mrs. Salado (tenants of Tonto Cliff Dwellings before the housing situation became what it is), all framed ready for hanging. These were done by Mr. Meredith Guillet, at present ranger at Casa Grande, and if any one questions that Meredith is "an Artist of Note" come and look. Many thanks and much appreciation go to Charlie and Meredith for their efforts in behalf of the Tonto Museum.

A brief greeting from Jimmy Brewer was found on the back of the picture, which leads us to believe he had a hand in putting the frames together. Thanks to you, Jimmy, and our best for you in your "All out for the U.S.A."

Wildlife. New birds noted this month were a flock of Swallows around the Ruins, catching the bees and flying away with the honeycomb. These were seen on the 13th for the first time and are still here. Bats were seen on that date also for the first time since last October. Mating calls are prevalent and springtime songs increasing. The screams of the bobcats are no longer heard so they must have moved on to new hunting grounds. Added to the animal personnel are skunks, not seen, but "Oh, my" * * * Our one squirrel, Mr. Tonto, has apparently gone down to the bridge to live, without doubt in married respectability, as he was last seen whisking behind a rock with a very attractive squirrel-ette in tow.

Projects for Ensuing Month. The usual maintenance work and all spare time on temporary cabin.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 546; travel to date, 2,271.

General. Travel conditions have been excellent with mild, "spring-like" weather. No rain fell during the month and for this reason no desert flowers or even greeness is expected this month.

Travel has held up very well this month in spite of gasoline rationing and the lack of military travel. Nogales has been declared out of bounds for members of the armed forces according to information heard in Tucson. This has effected a reduction in the number of military personnel visiting the monument.

Administration. Superintendent Richey visited and inspected the area on February 8. He recommended repair of the storehouse, especially the roof so that it would last for the duration. The roof of the mission was thoroughly inspected and recommendations made for a few repairs. The roof of the custodian's residence was inspected and found to need replacement.

Filing and correspondence have been kept current. New files were set up for correspondence on the Victory Tax and Overtime.

The custodian made two trips to other national monuments during the month. On January 26, a safe was hauled from Casa Grande National Monument.

On February 15 a load of lumber was taken to Saguaro National Monument for use of Custodian Peavy in the construction of a shed.

Accessions. Two Smith Indian fire pumps were received for use in case of grass fires on the monument, which might spread to adjacent private property. A number of volumes of The Regional Review, Region One, were received to partially complete the files of this fine organ. A photostatic copy of Senate Document No. 207 of the 46th Congress, second session, was received from the Law Library of the National Park Service in Washington, D. C. This document deals with land titles of the area formerly called the Tumacácori and Calabasa land grants and is a very valuable addition to the library.

Library SWNM. Ranger Mattison has been busy on certain days bringing the headquarters library filing system of newly acquired books to date. Under the stress of shorthandedness in the Headquarters Offices, this work was farme out to Tumacacori and steady progress has been made on completing the cards received. (Ed. Note: And a great help it is, Loui).

Visitors. A total of 546 visitors came into the area in comparison with 732 for the same month last year. Of this number, 463 were conducted through the mission ruins and museum. Total contact time for the month was 81 hours, minutes. Of this total, Caywood spent 32 hours, 20 minutes, and Mattison 49 hours, 10 minutes.

Maintenance. Brick walks around the museum building were stabilized and new sand was sifted between them. The brick floors of the mission were stabilized. Rodent holes in the foundation were sealed. A wire incinerator was constructed. Trees and shrubs were trimmed. The Patio Garden was kept watered and weeded. Spring flowers are growing and some are already blooming.

Weed removal on that portion of the grounds within view of the visitors was finally completed the earlier portion of the month.

The floor of the storehouse was partially replaced where it had rotted and broken out. A new jamb and lintel was placed for the door and a repair job was completed on the old door. A new sill was poured with concrete and a fairly good cleanup was made in the storehouse.

Two trees and two shrubs were transplanted adjacent to the ranger's residence.

Projects for the Ensuing Month. The storehouse will be repaired as well as possible for the condition it is in. The roof will be removed and nailed down properly. The walls will be braced with four 5/8" iron rods. If material is obtainable, the roof of the custodian's residence will be replaced.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 188; travel year to date, 1,554.

Travel. Although travel decreased from last month's 217, the comparative decrease in yearly totals to date remained stationary at 32.31 percent.

Trends. The healthy tendency for visitors to show an increasingly intelligent appreciation of the monument and its story continues. And let us say that this factor is of the greatest help to us in improving interpretation. Since so many people rightfully consider the little pleasure travel still afforded by their gas ration as a privilege, they are out to make their visit to the monument worthwhile. Thus our job under such ideal conditions is rendred the more pleasant. Incidentally, we can testify that the men in the armed services who visit the monument are among those who know best how to enjoy it.

Guide and Contact Service. Museum, 14 hours, 45 minutes; Field, 15 hours 30 minutes.

Personnel Time. Custodian, 30 hours, 15 minutes. (Harry Reed was over from Montezuma Castle to relieve us for a total of four days, but drew blank and rainy days each time). The Custodian delivered two talks to a total of 41 people at Clarkdale club meetings last month.

Projects Completed or Continuing. After threatening to expire of sheer privation, USDI 1304 is now doing nicely on a supplemental gas ration, the securing of which was quite a project in itself.

On his last trip to Tuzigoot for relief duty, we discovered that Harry Reed is a fine hand with a paint brush. If it hadn't been for the damp weather, he would have had most of the approach signs repainted. Another day or two should complete the job.

The TZ inventory was completed and readied for submission.

The TZ pipe line supplying our iron ration (added water) developed a fine 10-gal a minute leak at the foot of the tailings pond dam. Took two days of digging, bailing, clamping, and cursing to fix. Once more, the Upper Verde Utilities Co. adjusted our runaway water bill.

Much time during February was devoted to the taking of over 50 photographs showing the condition of the walls in Units V and III of the pueblo. Notations of stabilization in the rooms were also made. This project continues.

A thrilling race has developed at Tuzigoot to get the herbarium mounting and notations completed before the arrival of the stork. The HCWP, who has now completed mounting 86 specimens, promises a photo finish. Also, appropriately enough, she is racing to complete the bird notes and calendar. There are about half a dozen blue herons who have been standing down in the tailings pond below the monument, just smirking. We don't like their looks.

WALNUT CANYON, by Paul Beaubien, Acting Custodian.

Visitors this month, 76; travel year to date, 1,719.

General. Additional storms rendered the roads next to impassable. The few visitors were mostly Army Officers, with their families, being transferred from one station to another.

Visitors. Of the 76 visitors, 30 were not contacted, and it is estimated that 22 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien, 11.

Activities. Mostly odd jobs like chipping out a groove in flagstone floor under door in Administration Building, in order to put in cement threshold to render office mouse-proof; worked some on register stand; began carvings on two signs; shoveled lots of snow; helped Carl Lehnert install radio; procured load of coal; received some tin roofing from Lake of Ozarks RDA; painted some of office furniture; spent about a day and a half hunting leak in water line; spent quite a bit of time on inventory, both for tools and equipment and for Southwestern Monuments Association; and spent several days making temporary repairs on telephone line.

Projects for Ensuing Month. A lot depends on weather, but I should find leak in water line. With help from Custodian Jones, I may find a few Navajos for training under the FFFS program. Probably most of month will be spent at odd jobs around the Administration Building.

WHITE SANDS, by Paul M. Steel, Ranger.

Visitors this month, 1,101; travel year to date, 10,941.

General Travel is holding up beyond our normal expectations, although our Armed Force travel has fallen off somewhat, civilian traffic is picking up again. 115 permits were recorded this month compared to 85 last month. Armed Forces were issued 105 passes and the balance visited our museum but did not have the time, or gasoline, necessary to visit the monument proper. We have many requests for informational leaflets on the White Sands, but are able to satisfy most with SWNM folders.

Weather on the whole has been very pleasant. Night temperatures average around 20° and the day temperature from 55° to 78°. Two or three days of high wind have tried Joe's patience but he was able to keep our roads in good shape.

Park Operator. As this report is written, Tom Charles' condition is still grave but has improved the past week. Concession sales have been very good in spite of decreased travel. Mrs. Sheppard is doing a fine job in the little back room and will probably hold down till Tom is up and able to resume the job.

Official Visitors. Superintendent Richey and Regional Forester Carlson dipped by Monday, February 15, and spent the day with us. As usual, they had to get on to other areas and were unable to spend the time we would like to see them spend with us. Our fondest dream is to have Chuck come in some time and be able to spend a couple of days with us and not feel we are robbing some other area if we keep him an extra hour.

Maintenance and New Construction. Our spring winds are just beginning and the next two or three months will witness a constant fight with the elements to keep our roads clear. Some trouble has been experienced due to a poor cable on our carryall. As soon as a new cable can be secured we have a lot of work piled up for the equipment.

Joe is planning to build a new pump house in the Sands as soon as time will permit. This accomplished, along with a reconditioning of our pumping unit, should give us a very serviceable unit.

General. As usual, White Sands had its quota of events. January 24 the Alamogordo Army Air Base lost a bomber in the sands north of the monument boundary. The monument personnel was able to render material assistance to the Army in reaching the scene. The following Sunday an automobile belonging to Tom Carr, of Alamogordo, caught fire and burned two miles from the office on our entrance road. Then, to complete the month, Joe Sheppard was very much surprised to greet two visitors who had reached his home via parachute. It seemed a plane from the base was in trouble and the crew had bailed out. Joe gathered up four of the crew and helped the Army locate the balance.

Ranger Steel made a trip to Lake Murray, Oklahoma, in our dump truck and brought back a nice assemblage of power wood working tools to replace ours which had been transferred to Zion National Park.

And last, but not least, we enjoyed a 10 hour visit with Superintendent Richey and Regional Forester Carlson. Chuck made some very nice comments on our monument entailing about four months work. We will try to have at least part of the job done for your next visit, Chuck.

We regret very much the loss of Ranger Winslow to the Alamgordo Air Base. He was just getting well acquainted with our routine, but some research work

on dust control and planting made him a valuable asset to the Army and he was taken over as a civilian employee for the duration. Mrs. Winslow has also been employed at the Base so they have many advantages we were unable to offer. Dave hates to leave the Service and is already looking forward to the time when he may return.

WUPATKI, by David J. Jones, Custodian.

Visitors this month, 19; Travel year to date, 241.

Travel. There were just 19 more visitors than we expected this month. At the Citadel the register indicated 14 persons, whereas at Wupatki there were 11. Six of the names were duplicated on both registers, leaving our actual total at 19. A total of two hours was spent by the custodian in contact work.

Practically all of the visitors to Wupatki were Army personnel from the local munitions depot using their gas ration to see the country. One of the visitors to the Citadel wrote that the trip was well worth the use of rubber and gas. This was our only real visitor reaction. It is expected that unimproved roads will discourage more visitors than the limited gas allotment.

Weather. The weather of the past month continued unseasonably warm with very little precipitation. This means that unless we get more rain the grazing problem will be serious and it will be further aggravated by the abundant loco weed that is getting started like this would be a boom year for it.

Radio. The establishment of radio telephone contact between Wupatki and Walnut Canyon is the most important accomplishment for the past year. Chief Ranger Lehnert came over from Boulder Dam to work over the sets which were surplus at Mesa Verde National Park. We had to spend four days in Flagstaff to assist him and scour the town for needed supplies, as Paul was snowed in at Walnut. The reception both at Walnut and Wupatki is surprising. Daily contact is maintained with Custodian Beaubien, although we have not set a permanent schedule yet. This will be done on the next trip to town. The range of the set is amazing. In the tests we contacted the KNJX stations at Kingman and Overton. Zion National Park comes in clearly, but no attempt was made to communicate with them because of wartime restrictions. Unfortunately, satisfactory contact with the Forest Service in Flagstaff has not been made yet. This is highly desirable during fire season and in case the telephone line (notorious) to Walnut is not in operation.

Plans of the installation at Wupatki and changes in the wiring of the set made by Lehnert were recorded along with operation instructions, a copy having been made for Headquarters files. It is swell to have the set, Chuck, and we certainly appreciate the services of Chief Ranger Lehnert who is not only a technician who makes something out of nothing, but a swell fellow.

Water Purification. Water from both Wupatki and Heiser Springs was reported as being potentially unsafe last month. Since the flow from the springs was safe, the difficulty lay in the storage tanks or lines. Both tanks were disinfected and the Wupatki catchment cleaned out and a new lid constructed for it. No report is available since this work was done, but if it is not safe now we are sure that we can whip the problem.

Fire Protection. In cooperation with Custodian Beaubien plans are being made to train a crew of Navajos for fire protection. This is our only available source of manpower for the coming summer. At Wupatki the Navajos will be, more or less, available at all times, as they are going to spend quite a bit of time at their fields this summer. More about this next month--we hope.

General. During the month work was accomplished on a physical plant index and the instructions for operation and maintenance. An inventory of non-expendable property is 50 per cent complete at this writing. Two days were spent on a near-stoppage in the sewer line between the kitchen and the bathroom. One of the difficulties is that the kitchen cleanout is located in such a manner that it is not possible to take out the plug without a special wrench. An attempt will be made to have the wrench fabricated locally, if the cost is reasonable.

A junk dealer from Phoenix came in for the dump truck body for scrap and this completes our scrap salvage program, except for the routine collection of small items as we encounter them. For our efforts he donated the monument a small crow bar we admired.

Now that we have actual data on the fact that we cannot keep within the mileage allotted us by the ODT, this matter will be taken up with the local board in an attempt to have the Wupatki allotment increased to our submitted estimate.

No inspection was made at Sunset Crater during the past month due to the fact that the roads were closed by snow. Judging from what the visitors say, it is still closed.

SUPPLEMENT

The following information of interest to the field was extracted from the Superintendent's February Narrative Report for the Director.

Special Activities. Superintendent Richey was at headquarters in Santa Fe February 1-4 and 17-28, inclusive. From February 4-17, field inspections were made at all southern Arizona National Monuments and White Sands in New Mexico. Mr. Richey was accompanied to Arizona by Regional Forester Carlson. On February 1, and 17 to 24, inclusive, Mr. Richey served as Acting Regional Director in the absence of Mr. Tillotson, and, during his time in Santa Fe, assisted with the work of the Region Three Office.

Two trips were made to Bandelier National Monument, one relating to the improvements in connection with Army facilities being constructed on the Los Alamos Ranch School property, and one with Assistant Forest Supervisor Wang of the Santa Fe National Forest in connection with the relocation of the Mountain States and Forest Service line made necessary by their present nearness to the military establishment being constructed at Los Alamos Ranch.

In Tucson, in company with Regional Forester Carlson and Acting Custodian Peavy of Saguaro National Monument, Forest Supervisor Mercer and District Ranger McPhaul of the Coronado National Forest were contacted regarding cooperative telephone facilities for Saguaro National Monument and the Coronado National Forest.

In Phoenix, Arizona, State Land Commissioner O. C. Williams and Engineer Bone were contacted relative to the exchange of state land remaining in several

Arizona national monuments, and relating to the possible acquisition of private lands on the Arizona portion of the proposed Manuelito National Monument.

Senior Highway Engineer McLane of the Public Roads Administration was also contacted in Phoenix regarding maintenance on the new Organ Pipe section of the Ajo-Sonoyta road.

Mr. Richey was elected Vice President of the Santa Fe Federal Business Association, and National Park Service representative for the Red Cross War Chest drive.

Assistant Superintendent Maxwell was on duty in Santa Fe the entire month. In addition to his regular duties he served as Acting Regional Director several days during the absence of Mr. Tillotson and Mr. Richey, and assisted throughout the month in disptaching the duties of the Region Three Office.

Park Operators. Tom Charles, White Sands National Monument, has been gravely ill for the past month. Recent reports are that Mr. Charles is improving.

Decrease in Travel. Travel totals for the entire group of monuments are standing up very well by comparison with last year's figures. Only 4 per cent decrease occurred for February, and 17 per cent decrease for the cumulative travel year. Historical and archaeological areas are down 41 per cent in travel to date, while the biological-geological group are barely under par with less than one per cent decrease. This situation may largely be credited to Organ Pipe Cactus National Monument which had an increase for February of 940 per cent, and an increase of approximately 330 per cent on travel to date.

Personnel.

Appointments

Sallie Pierce Brewer, Ranger, Casa Grande National Monument. Entered on duty February 16, 1943.

Mabel B. Usrey, Junior Clerk-Stenographer, probational appointment. Entered on duty February 5, 1943, after period of temporary service in same capacity.

Separations

David C. Winslow, Ranger, White Sands National Monument, by transfer to Army Air Base, Alamogordo, New Mexico, effective close of month.

Charles D. Wyatt, Custodian, Canyon de Chelly National Monument, by resignation, January 19, 1943, to accept employment in the East Texas Salt Water Disposal Company, P. O. Box 633, Kilgore, Texas. Charlie's new address is 311 East North Street, Kilgore, Texas.

PERSONNEL NOTES

In accordance with his usual custom, Yeoman 1st Class "Goodie" G. Goodwin checked via telephone with Parke and Gene Soule, reporting in from an "overseas" trip. Strangely, he had little to say concerning his previous whereabouts on the Pacific. It is suspected that the fish seen on the voyage were not altogether natural since he did comment on the chocolate "dorothy lamours" observed. Shore leave was over in an hour; present whereabouts, accordingly, are unknown. He can be reached via mail by addressing him on the U. S. S. Chandelieur, c/o the Postmaster, San Francisco.

CPO Peter Shuft has completed basic training and is now stationed just outside Chicago where he has been joined by Katherine and Johnnie Bill.

At a recent meeting of the Santa Fe Federal Business Association, Chuck Richey was elected vice president of the local organization.

Willard Bradley received a telegram on March 5 from his son, Captain Quintin Bradley, USMC (seasonal de Chelly) stating that he had just arrived from the South Seas and was in the Oak Knoll Hospital in Oakland, California. Quint. contracted a tropical disease conveyed by mosquitos and has been returned to "the states" for treatment. The telegram stated "feeling fine", and the Bradleys hope that Quint may be allowed to come home to Santa Fe for a short furlough.

Joe Toulouse is at Headquarters on a two-month assignment in Parke's office. Joe, Betty, and little Patty have moved into a small estate near the office. Joe states that he plans to carry on excavation and research but it will be in the files, a new type of archeological site for Joe, but one requiring the removal of considerable overburden.

Platoon Sergeant Bill Supernaugh writes that he expects transfer at any moment to Officers Training School in Virginia. Anne will go to her home in Illinois.

Bill Bowen (Montezuma Castle) left Grand Canyon National Park on January 10 for the armed forces.

Lieutenant Robert N. Ariss (seasonal El Morro) was recently married and is living at 3232 Boston Avenue, San Diego.

A recent letter from PFC Vince Ellis (Bandelier and Headquarters) reports that he was one of the first five rookies out of 160 to get the PFC rating, and that he is working as a clerk in the Plans and Training Section of his battalion, attending classes on alternate days. He sends regards to all SWNM personnel.

Katherine Wilson, new HCWP at Navajo, is continuing the project of recording bird observations started by Sallie Brewer.

Sallie, in the meantime, rates the following headline in the Coolidge Examiner of February 26, "First Lady Ranger in the Southwest Now Serving at Casa Grande Ruins." Sallie entered on duty February 16.

Have you read Joe Toulouse's recently published paper prepared in collaboration with Kirk Bryan? It is titled, "The San Jose Non-ceramic Culture and Its Relation to a Puebloan Culture in New Mexico", and appeared in the January "American Antiquities", beginning on page 269.

Of interest to many is the announcement of the arrival of Timothy Reed at the home of Erik and Dorothy on February 26.

Harry Linder recently received a clipping from a Los Angeles newspaper announcing the betrothal of Howard Rieber (headquarters), now employed by the

Panama Canal Company, to Miss Jane B. Richardson of Los Angeles. The wedding is scheduled for April, either in the Canal Zone or in Mexico City. Miss Richardson was educated in Paris, has traveled extensively in Europe, and spent seven years in Shanghai, China.

It is noted in the monthly report that Frank Fish has so few visitors that he wants to count the cows that wander up to his office. We presume that he would offer them interpretive contacts in geology by the overarm method.

The report from White Sands carries word of Tom Charles' serious illness. Although it has been a long time since Tom was custodian at the Sands, all of us think of him as still a part of the SWNM family and hope that he is back on the job again by the time this is published.

After reading the delightful last paragraph of Jack Cotter's report, you will probably agree that three tableaux vie for the honor of "picture of the month" this time:

1. Jack Cotter, stop-watch in hand, trying to keep an eye on the monument herbarium and at the same time observe the moment at which one of the herons takes to the air.

2. Ted Sowers at the height of the hail storm with his head in the weather recording instrument shelter.

3. Ted leading a bunch of barefooted Japs through the brambles between the bank of Chinle Wash and White House Ruin.

FEBRUARY 1943 - TRAVEL RECORDS

Station	Feb. 1943	1943 Travel Yr. To Date	Feb. 1942	1942 Travel Yr. To Date
	(Jan.) 47			
rches	(Feb.) 27	304	21	646
apulin Mountain	300	2800	300	7800
hiricahua	198	1062	303	2342
atural Bridges	0 *	47	15 *	15 *
rgan Pipe Cactus	4162	17243	400	4010
ainbow Bridge	0 *	0 *	0 *	0 *
aguaro	576	2134	1365	6145
unset Crater (snowbound)	0 *	1007	0 *	1430
hite Sands	1101	10941	2262	13439
Total Biol-Geol.	6411	35,538	4666	35,827
ztec Ruins	147	1262	134	1617
andelier	43	1161	42	1004
anyon de Chelly	26	160	40	455
asa Grande	696	3832	1673	7362
haco Canyon	22	105	11	111
l Morro	10	95	0	199
ila Cliff Dwellings	0 *	10	0 *	10 *
ran Quivira	5	176	54	556
ovenweep	0	18 *	0 *	30 *
ontezuma Castle	193	936	404	2519
avajo	0	16	2	36
onto	192	1209	622	2708
umacacori	564	2271	732	3127
uzigoot	188	1554	275	2296
alnut Canyon	76	1719	217	2242
upatki	19	241	47	645
ucca House	0 *	10 *	0 *	20 *
Total Hist. & Arch.	2181	14,775	4253	24,937
RAND TOTAL FOR FEBRUARY	8592	50,313	8919	60,764
ast Month	7205	41,721	10,302	51,845

Estimated Travel.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

April 12, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

March narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the greater part of the month in the Headquarters Office, occupied with office routine activities, supervision of the library project, and Southwestern Monuments Association activities. On March 24 he left on a field trip to southern Arizona and had not returned when the report month ended.

The status of Charlie R. Steen was changed from Junior Park Archeologist to Assistant Park Naturalist effective March 16, on which date he arrived at the Headquarters Office in Santa Fe. Following his arrival he took six days annual leave and spent the remainder of the month in the office. The first part of the month Steen spent at Casa Grande National Monument, forwarding the Ruins Stabilization project there.

Extension Services - Radio Talks. An illustrated talk on the national monuments of Arizona and New Mexico, using the headquarters motion picture reels, was presented on March 5 to an audience of 75 at Saint Michael's College in Santa Fe. The set of motion picture reels and three sets of slides loaned to the Boulder Dam National Recreational Area remained in use at Boulder City throughout the month of March. Filling a request made by the Miami, Arizona, public schools, a set of motion picture reels was loaned to that city for showing throughout the public school system.

New or Unusual Activities. In response to requests from several parks and monuments in Region Three, a clarifying statement was obtained from the Director's Office relative to restricted distribution of informational leaflets and photographs as a war-time measure. All monuments coming within the restricted zone were notified. Out-dated but still useful photographic film in the Region Three stock room was distributed to several areas where needed.

Progress of Exhibit Plans and Projects. Final details of the Museum Revision and Expansion Project at Casa Grande National Monument were completed. Sketches and captions for completing the Multiplex display at Canyon de Chelly National Monument were submitted by the Acting Custodian and reviewed by the Interpretive Staff.

Staff Research - Observations. Custodian Toulouse's "Bird Calendar" appeared in Volume 18, No. 1, of "News from the Bird Banders" published by the Western Bird Banding Association. At the request of the Division on National Parks Wildlife, the Custodian at Saguaro National Monument made further investigations of the recently reported Bat Cave.

Cooperative Projects. The University of Arizona Botany Department continued its assistance in identifying plant specimens collected on various monuments. Ferns of the Chiricahua National Monument herbarium were identified, four species previously unrecorded from the monument being classified. One species of stonecrop new to Cochise County was collected on Chiricahua National Monument. Assistance was rendered to the Wyoming State Department of Public Health in a study being made relative to the population of the Prairie Falcon in the western states

Library. Seventy-four publications consisting of three books, 35 periodical 27 pamphlets, and 9 reports, were added to the library this month. Accession of the month consisted of a copy of the Haynes Guide (illustrated) to Yellowstone National Park, 1898. This book was contributed to the library by Associate Engineer James Hamilton. The project of accessioning, cataloguing, and shelving library publications continued throughout the month.

Southwestern Monuments Association. All Association records were kept current. Two consignment accounts were liquidated. All copy for the Association's proposed publication "Arizona's National Monuments" was submitted to the printer. Arrangements were made for binding the book and for the use of color plates. Five commercial outlets for the sale of the book were opened.

Status of Archeological Projects. Ruins Stabilization Project at Casa Grande National Monument was brought to approximately one-half completion before difficulties in obtaining labor terminated the project. It will be resumed when labor difficulties are relieved. Some progress was made on the reconstruction demolition project at Tuzigoot National Monument.

Office Visitors. Ranger James Eden, Custodian Thomas, and Acting Custodian McNeil had business in the Interpreter's Office during the month.

Wildlife Management. All custodians were requested to concentrate during the coming year on wildlife observations and studies as a war-time research project. This request was issued in compliance with a memorandum issued by the Director's Office.

Reaction of Visitors to the Interpretive Programs as Influenced by War-Time Conditions. Bandelier reports visitors unusually interested and unhurried. The majority of visitors come on stormy days due to the fact that workers on the neighboring Zia Project work seven days a week except when prevented by stormy weather. Stormy days thus provide them with their only chance to visit the monument. Casa Grande reports visitation by many traveling salesmen who nowadays have nothing to sell but have to cover their territory in order to maintain contact with pre-ration time customers. Many visitors at Montezuma Castle apologize for stopping, and seem to feel guilty for using tires and gasoline to visit the monument. Most of them report that they are traveling on business and make the side trip to the monument while in the vicinity. White Sands reports an enormous increase in number of requests for informational leaflets. These requests come, by mail, from families of soldiers who have visited the area and have written home about it. Visitors to Wupatki National Monument stay much longer and are much more interested than in pre-war days. The Custodian reports that many more people have informed themselves about the attractions of the monument before visiting the area. Chiricahua reports that practically all of its travel comes on Sundays. It also records an increase in horseback riding on the monument, visitors leaving their cars at the lodge and covering the monument on horseback.

Regional Naturalist Activities. The Acting Regional Naturalist conferred with the Regional Director relative to interpretive personnel problems throughout the region. A statement for the Region Three organization chart was drafted. The Boulder Dam Master Plan Revision was reviewed.

Projects Planned for Next Month. Due to the return of the Acting Librarian to her home in Colorado, the current accessioning and cataloguing project will

erminate about the middle of the month. Work on the Walnut Canyon museum exhibit plan, dropped when Associate Naturalist King entered the armed forces, will be resumed. The Headquarters photograph files will be checked and a number of inferior photographs which have been replaced by new negatives will be removed. Because of shrinking of the Interpretive staff and the addition of new duties, the Southwestern National Monuments Headquarters Interpretive Program will be thoroughly scrutinized and all possible projects dropped for the duration. Placing of the department on a streamlined basis is absolutely essential if the increased demands on a short-handed staff are to be met.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors this month, 29; travel year to date, 333.

Weather: The weather has been quite unsettled through the month with quite a bit of moisture. About two inches of snow fell during the day March 18, with some rain before and after the snow. It was the most snow that we have had here at any one time during the entire winter. It was swell for the ranchers, but the fruit was hit pretty hard as a lot of the trees were in blossom and it froze hard on the night of the eighteenth.

Monument roads are not in very good condition. Some handwork has been done, but it needs a blade over it pretty bad. I have the promise of a small rubber tired maintainer, to use a day or so. This I can operate with the truck, and can help the condition quite a bit with a couple of rounds. That is, if I can beg someone either to drive the truck or operate the blade. I guess I will have to trade work with someone; help is just a thing of the past.

Forester Carlson and Ecologist Ratcliff showed up at the monument on March 11. Carlson was here only long enough to pick up some tools. Ratcliff spent the balance of the week here, also Sunday, and left Monday with the Chevrolet pickup and a load of tools.

My trespass problems are still with me. Horseback and pickup patrol has been continued, with some results. I have found three boundary markers turned around, and several destroyed completely. I can understand why these ranchers are squawking for help, although I believe it is less work to keep stock on an area, rather than keep them off. If I had an aeroplane and a jeep, I believe I could do a pretty good job on patrol.

The portable building has been moved and set up, but there is a month's work to get the material and tools rearranged.

A few more trees and shrubs have been planted and about 45 pounds of grass seed was scattered over the snow while it was still snowing. I had been waiting all winter for a snow so I could do this, but I am afraid it got here too late.

A few more boards were cut for the yard fence but, since I have so many other things to do, I can only work on this a short while at a time.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 276; travel year to date, 1,538.

General. March came in like a lion and appears to continue in such a manner. Our weather hasn't been so bad but we have had more different kinds of weather this March than I can remember recording for many years. Travel has been slow due to a number of reasons, but the amount of work accomplished on other worthy projects more than offsets any decline we might show in visitor travel.

Weather Statistics. Maximum temperature 65°, on March 9 and 23. Minimum temperature 14° above on March 21. Precipitation was recorded on 15 days during the month and it consisted of 1.70 inches. There were 15 cloudy days, and the remainder partly cloudy with a small portion of sunshine which is very unusual for this part of the state. More than the usual amount of wind was noted.

Use of Monument Facilities by the Public Two hundred seventy-six persons entered the monument in 80 automobiles, coming from the following states: Arizona 9, California 5, Colorado 119, Kansas 1, Iowa 4, Missouri 4, New Mexico 111, Oklahoma 4, Pennsylvania 1, South Dakota 7, Texas 2, Utah 4, Wyoming 5. Men and women in uniform who visited the area, 8. WAAC'S: 1, soldiers: 5, sailors: 2. Of the above total, 123 persons were guided through the ruins, in 33 groups. The same number were guided through the museum. Total guide time: 56-3/4 hours. Personnel engaged in interpretive service: Miller 23½ hours; Mahan 33¼ hours. Guide tickets sold, 85. Revenue collected: $24.01. Twenty-eight cars were counted, with 103 people who did not avail themselves of our service, but were here and used monument facilities and might be called pleasure drivers on Sunday and after closing time on weekdays. All guided visitors were interested and interesting and had time to see the area properly.

National Park Service Visitors. Mrs. C. A. Thomas, Mrs. Jim Eden, and Tony Valencia, Bandelier National Monument. Tony left us a wheelbarrow with the compliments of Art Thomas. Arthur C. Miller, son of Custodian and Mrs. Miller, joined the Navy during the month, and is now standing by, waiting for his call to active duty. Arthur is 17, and thinks the war might end before he gets called.

Cooperating Agencies. Mr. Thatcher of the Soil Conservation Service office in Farmington was here and took a lot of natural color photos of the ruins and also received all the information available on the prehistoric Indian irrigation system here. Mr. Thatcher plans to make a lot of talks over the country. He is a good talker and his pictures were excellent, so we will probably get a lot of good publicity from this agency.

Received dealer's license during the month, from the OPA, to distribute gasoline to official cars. We also received enough stamps to refill our gasoline tank. Removed tires and tubes from the old Dodge pickup and dump trucks. They were placed in storeroom and reported as surplus to the Procurement Division. The trucks are being salvaged and the tires will be shipped to the Procurement Division in Denver in accordance with instructions from your office.

Southwestern Monuments Association. Complete inventory and remittance were made to the secretary of the SWM Association, bringing all the Association business up to date.

Maintenance, Improvements and New Construction. Our old water line broke on February 26, near the residence. We excavated and made temporary repairs. However, upon close inspection it was noted that the one-inch line installed many years ago was completely rusted out in many places, so we excavated 700 feet of trench ranging from 3½ feet to 5 feet in depth, removed the old line, and installed practically new 2-inch pipe. It is hooked up and operating efficiently. We have not covered the line as yet because of the excess moisture in the ground. It appears we have a few wet weather seeps above and to the north and west of the residence. This water line project has been put off until the frost went out of the soil. This excavation and installation was done by the ranger and the custodian. We have 120 feet of pipe on hand, but we cannot complete the job until we find some more 2-inch pipe. To date 800 feet of excavation for the water line has been made.

Custodian McNeil was in on March 19 and left the Chaco dump truck for use here while he took annual leave. To date we have 16 yards of sand and soil stockpiled to be used on stabilization of ruins. Next month we hope to have made some headway on that much-needed project. Sometimes we think we are slow

ut when we turn the old calendar back and look into projects we have completed, I think we have batted a pretty fair average. One Navajo from the reservation has been employed to work with the two permanent employees here, namely, Mahan and Miller, on stabilization of ruins.

BANDELIER, by C. A. Thomas, Custodian.

Visitors this month, 140; travel year to date, 1301.

Weather has been cold and windy. We have had .99 inches of moisture. The winter has turned out to be one of the driest on record so far, and if we don't get some moisture this spring, we can expect a bad fire season this summer. Roads have been generally dry, but rough.

The monument officially opened March 1, after being closed during the months of December, January, and February. Travel is a hundred over the month of March last year. The Army has re-routed the Forest Service telephone line to Espanola through the Otowi Section, and the Mountain States Telephone and Telegraph Company has completed the survey for the trunk line to the Zia Project at Los Alamos. Our truck made a trip to Arches for lumber and supplies for White Sands and Bandelier. Ranger Eden was called to active duty in the Navy. J. W. Hendron will replace Eden for the duration. We disposed of 15 tons of scrap metal and scrap rubber during the month. A total of 60 yards of gravel was transported for the water intake improvement project and considerable routine maintenance was accomplished.

The Army Engineers have about completed the $75,000 road improvement project on the Otowi Hill. They have also relocated the Forest Service telephone line to Espanola through the Otowi Section. The Mountain States Telephone and Telegraph Company has completed their survey through the section of the trunk line to the Zia Project at Los Alamos and have already begun construction. The Custodian spent three days working with the engineers running the preliminary lines through the monument.

Agitation for the White Rock Canyon Dam on the Rio Grande has been revived and a bill is now pending in Congress to provide funds for the construction. Part of the monument will be flooded if the contemplated dam is built. Local sentiment seems to be building up against the dam because of the possibility that the waters will flood the Pueblo of San Ildefonso.

General Mechanic Valencia made a trip to Arches National Monument during the month to bring back a load of lumber, furniture, and signs for Bandelier and White Sands that have been stored at Arches since the termination of the CCC camp last May. A band saw, drill press, and a number of fire tools were transferred to Bandelier during the period.

One hundred forty visitors in 37 cars came to the monument during the month. This is almost a hundred more than came during March of 1942. They were cared for in 21 trips to the ruins and 11 museum lectures. Time spent in interpretive contacts: Thomas, 31 hours; Hendron, 2½ hours.

Visitors seem unusually interested and unhurried this month. Most of our travel has come from the new Army hospital in Santa Fe and from the Los Alamos project on Sundays and stormy days. In the past, stormy days invariably meant that we would have few visitors, but the reverse has been true this month. Men working on the war projects work seven days a week normally, but sometimes are forced to lay off for stormy weather. In spite of the bad roads that accompany storms in this part of the state, they avail themselves of the only opportunity they have to see the monument.

Maintenance has continued on the physical plant. The kitchen in Quarters #4 was painted and calsomined. The remainder of the 60 yards of gravel was hauled from the Rio Grande for the water intake. All motor equipment was driven to Espanola for ODT tire inspection. The starter and lights on USDI #2948 were repaired. Fan belts and minor repairs were made on the two trucks. Storm damage to the telephone line between the checking station and the lookout was repaired. A complete inventory of materials on hand and a surplus list were made and submitted to the Superintendent's Office. Fire plans were revised and will be mailed to his office for approval in a few days. Fire tools and equipment are being put into shape for the coming season.

Ranger Eden left March 12 for active duty in the Navy. A letter from Jim states that he is at Camp Peary, Virginia, and he wants to know if he can borrow "John Mule" to pack his duffle bags from barracks to barracks until they finally decide the one he is to be stationed in. J. W. Hendron, former ranger and acting custodian at Bandelier, will replace Eden for the duration. Hendron assumed his duties March 20. Superintendent Richey, in company with Assistant Supervisor Wang of the Santa Fe National Forest, visited the monument February 25 to inspect the route of the proposed Forest Service telephone line through the monument.

Numerous patrols were made of the Otowi Section during the month. Another Class A fire was discovered and controlled on the Section.

Projects for the Ensuing Month. During April we plan to rebuild the ladders to the Ceremonial Cave, clean all grounds and trails, repair a leaky water line in the museum patio, paint all signs, burn weeds from the ruins with the oil torch, and grade the approach road to the checking station.

CANYON DE CHELLY, by Ted C. Sowers, Acting Custodian. (February Report)

Visitors this month, 26; travel year to date, 160.

Weather. The lowest temperature was 11 above and the highest recorded was 70 degrees. The past month has been spring-like here, with the exception of the present writing, when a surprise hailstorm struck and caught the acting custodian with his head in the weather station, where he kept it for protection.

The roads, although rough, have been in good shape during the dry spell. De Chelly Wash has been running and makes it impossible to cross by car.

Visitors. "Paul Revere" rode up from Window Rock warning the Navajos that the "slant eyed" people were coming. Shortly thereafter, a school bus stopped at headquarters with twelve Japanese from a relocation center. They were accompanied by three whites and the Navajo driver. Chinle really came to life and there was quite an uproar at Cozy's place. Since they spoke Japanese most of the time, I had sweet revenge when they crossed de Chelly Wash. It was necessary to remove our shoes and wade--well, they left their shoes on the wrong side and had to walk through the brambles to the ruins.

The other visitors consisted of local people driving up to the rim and viewing White House from there.

Wish I could count, as visitors, all Navajos who have come into the office to hover over the fire and look us over. Cecelia fell under the spell of the local moocher and gave her a pair of precious shoes. See now that I'll have to give up number 17 stamp.

Guide and Contact Service. Total contact hours, six and one-half. Ruin, six hours; headquarters, thirty minutes.

Administration and Maintenance. Rearranged furniture and straightened up office. Took complete inventory of all SWMA publications as well as de Chelly library. Cleaned custodian's house and took all garbage and trash to the dump.

Model A Ford USDI 1813 was loaded on truck for shipment to McKinney at Arches. This made room in the garage for the dump truck USDI 1227. Greased and changed oi on USDI 1227, 1250 and 1258, also taking care of minor repair jobs on same. Art Freeman, of Chinle, inspected the tires on USDI 1227 and 1258. This saved considerable rubber and gas.

Spent about a week making an inventory of all property, both equipment and expendable, in house, office, tool room and garage.

Made one trip into Gallup in USDI 1258, to obtain a battery and fuel pump for USDI 1227, no luck. But did return, however, with four tanks of Propane gas, which keeps the ice box going for our fresh meat.

Things in General. At the first of the month, we were pleasantly surprised to be invited to a real Navajo wedding. Went to the hogan with Inja and Cozy McSparron. We were more than interested because it was also Cozy's first wedding in his thirty years in the canyon. For those interested and to make a long tale short, this is roughly what happened. The wedding feast was prepared in one hogan and then carried to another. We were the last to enter--the place was packed, but we managed to squeeze in. The bride and groom sat facing the Medicine Man who placed a wedding basket before them which was filled with black corn meal. First the bride washed the groom's hands, then he returned the favor. The Medicine Man took yellow corn pollen from a small bag and made lines on the black meal from east to west and south to north. A dot of pollen was also placed at the center and edge of each line. Then pollen was placed around the edge of the basket. He was praying and blessing the union during this procedure. Thinking this was a solemn occasion, we were too busy watching the ritual rather than the guests. However, at this point one Navajo asked in a loud voice, "When do we eat?" This practically brought the roof down with laughter. The knot was tied when the bride and groom took pinches of corn meal and pollen from the basket after the Medicine Man. The basket was then passed around to the guests who also took pinches. In the old days, they say, the newly married couple had to eat all meal left in the basket--the object being, naturally, to take as little as possible in order that they would have so much the guests could tease them and make fun of them. We certainly enjoyed ourselves in this new experience.

We were also invited to help at the school in the distribution of War Book Two. This was rather exciting and gave us the opportunity of meeting the Indian Service people and also many Navajos.

Next month, the thrilling episode of "Trapped in the Trailer by a Navajo".

CANYON DE CHELLY, by Ted C. Sowers, Acting Custodian. (March Report)

Visitors this month, 8; travel year to date, 168.

In continuation of last month's report, the thrilling episode referred to was contributed by the local village idiot, a Navajo who speaks neither Navajo nor English. He is a bit touched but completely harmless, they say. When Cozy tires of his sleeping in the store, after being kicked out he naturally heads for headquarters. Not knowing of his peculiarities, a cigarette was offered, whereupon he promptly took three. This led him to believe he was our personal property and so he tried to follow us into the trailer for lunch, adding to our discomfort, moreover, by peering in the windows until we drove him away by pulling the curtains. Lately he has been honoring us with his presence by peacefully sleeping, doglike, by the front door of the custodian's residence.

Weather. The lowest temperature was 15 degrees on March 21, and the highest recorded was 64 degrees on the eighth. We have been enjoying rainy spring days with a strong cool wind blowing, and also winter with a snowfall of nearly four inches on the twenty-third. However, the snow did not last long, as that after-

noon's shower soon melted it away. Two hailstorms were also noted, but were infinitesimal in comparison to last month's dandy. Due to the excessive amount of moisture, the roads have been nothing to brag about. It's a rough one hundred miles to Gallup. De Chelly Wash is running more than last month and after a rain storm, the waterfall from the canyon rim adds to the local beauty.

Visitors. Travel has been cut nearly in half in comparison to this month last year. Two cars from California and two Arizona cars from Chinle comprised our motor vehicles. California was represented by three persons and Arizona by five, making a total of eight visitors. None wished a conducted tour to White House. The California people did not say whether they were traveling for business or pleasure, but imagine it's the former.

Guide and Contact Service. Total contact hours: one hour. Ruin, none; headquarters, one hour. One written request for information was received and promptly answered.

Administration and Maintenance. Kept quite busy this month with various jobs. Went into Gallup for fuel pump and battery which were installed on USDI 1227. Drove to CCC Camp to have tires checked. Washed and greased USDI 1258. Received a certificate for new tire and tube for USDI 1227. Completed the records on the backs of the "Certificate of War Necessity". Patched the roof of the custodian's residence where a new leak had begun. Cleaned and straightened up the back yard by placing the wood pile in a less conspicuous spot. Painted the gasoline pump a seal brown which acts as excellent camouflage. Returned requested books of SWMA to publisher. Sent two plans to headquarters for correction for the completion of the Multiplex. While unloading poles for the hogan, tried to work on the drains of the kitchen sink and laundry tub in the house. Not with greatly improved results. Also probed sewer line to the first manhole. Have two more to go. Began work on the hogan with Tuly Bia, who works from eight in the morning to seven in the evening. Then he attends the "sing" just over the hill which is held for nine days. He is combining business with pleasure! The hogan being built is the cribbed type and is far more complicated in construction than the custodian first thought.

Projects for the Coming Month. Finish building the hogan. Construction of skylight, door and shelves for storing archaeological material. Finish cleaning the sewer line. Patch a few places on the roof of the custodian's residence. Completing and framing the Multiplex displays. Hoping for a few visitors and also some local excitement.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 400; travel year to date, 3,200.

What we commonly know as tourists are very scarce, but we have some visitors who are passing through the country, to and from Army camps and some on business and, as this monument is on one of the through national highways, many stop and look over the monument.

Roads on the monument have been very hard to maintain this month, on account of the dry, windy weather shelling the rock and cinders into this road from above. It has become almost a daily problem to keep the rocks out of the road. However, it has been kept in fairly passable condition all through the month.

The weather has not been at all nice, but without precipitation, plenty cold and windy as, of course, we always expect March to be. The fore part of the month was marked with the thermometer reaching two or three degrees below zero several nights. This is a little unusual for March, though it has happened before.

Wildlife on the monument is as usual for this time of year. One trip there this month I saw fifteen deer. Three were right down in the crater. They were a

oe and two last-year fawns. Coyotes are not so plentiful this year, as some of he trappers in the community have been very active this winter. Our birds have een with us all winter and the proverbial spring robin has kept the spring right ere in the monument all winter for he did not go south this winter at all.

Our fire hazard still exists and will, of course, until we get some snow or ain. An extra fine crop of grass and weeds last season is still spread over the onument and is very, very dry.

ASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 840; travel year to date, 4672.

Weather. A comparison of weather records shows that March of this year has een generally warmer and wetter than March, 1942; there have been .61 inches of ainfall as compared with .34 inches last year. Temperatures have ranged from a aximum of 89 degrees to a minimum of 32 degrees.

We've heard that there are places that have recently had very low temperature now, slush and mud. It surely couldn't be in "God's Country"--or could it?

Administrative. U. S. Army Engineers started dismantling the CCC buildings n this area on March 8; the material was hauled away in a fleet of 25 Army trucks n the tenth and eleventh. Permission was obtained from Corps Headquarters throug aptain Koche to retain for the Park Service the educational building in the CCC amp, giving us some much-needed lumber, which has been divided between Saguaro nd Organ Pipe.

Before the report on surplus automotive equipment was compiled, contact was ade with Organ Pipe, Saguaro, Chiricahua, and Walnut Canyon to determine their ire and tube needs; two days were spent installing the best tires in the warehous n the headquarters and monument equipment.

The report on surplus automotive equipment was prepared on the thirteenth and ourteenth and mailed on the fifteenth.

All CCC records stored here were sorted, and files to be saved were shipped o Santa Fe on the twentieth, in boxes constructed for that purpose.

Construction and Maintenance. A week was spent in painting and rubbing all oodwork in the museum to the weathered pine finish recommended by the Superinten- ent; the job was complicated by the former finish of deep oil stain, but Meredith olved the problem by applying a thick coat of grey paint and rubbing the wood be- ore the paint had thoroughly dried. The olla stands and display tables in the useum were boxed in.

The custodian and Ranger Guillet finished the doorway between lobby and exhibi ooms in the museum, plastering the walls and pouring a cement surbase. The hole eft by the cooler installation was plugged with adobe and plastered inside and ut.

Five tires were recapped for the Soil and Moisture truck USDI 2617; seven ires were mounted and installed on this truck by Bicknell and Brewer (J.W.).

Two hundred forty-six signs, for SWNM areas, were cut and sprayed with two oats of enamel, ready for lettering.

A rainstorm during the month gave us the opportunity to check leaks in our oofs; there were leaks in the administration building, warehouse, storage shed, nd shop; leaks formerly repaired in the naturalist's office and Quarters #7 stood p during this storm. On the tenth, roofs of the shop, car storage, warehouse, nd administration building were patched.

Some time was spent in keeping sewer lines open.

NPS Personnel. The 20th century migration of Casa Grande dwellers eastward as completed on the fifteenth, when the Steens entrained for Santa Fe; we hope

Naturalist Charlie, Mary, Allison, and Yashie find good hunting in their new home.

Custodian Caywood made a short visit on the twenty-seventh, bringing fence wire.

Regional Soil Conservationist Balch and Foreman Jordan came on the fourth, and the help of the USIS was obtained in welding cattle guard rails. They left for Tuzigoot on the sixth.

Mechanic Stonehocker was operated on, March 15, for the strain he suffered in January; Dr. Steward reports him doing fine at present.

Custodian Peavy came up on the first and fifteenth, hunting hay. On the later trip he took back a truckload of hay and lumber.

Visitors, wind, and bats have kept Teddy busy policing the grounds; he's keeping everything spick and span.

Custodian Brewer returned from Organ Pipe on the fifth, on the hunt for lumber to complete the Organ Pipe temporary quarters. That problem was taken care of when Custodian Bicknell obtained the CCC educational building from the Army, and Jim spent about ten days salvaging all building material from that structure. On the sixteenth he made a trip to Saguaro with lumber; on the eighteenth he left for Organ Pipe with a truckload of lumber and office equipment, returning on March 20 with Custodian Wilson, who returned to Ajo that evening with a dump truck full of more lumber and a cement mixer. While in Ajo, Brewer received his orders from the Navy to report for active duty in Phoenix on March 26. Another lumber-hauling trip was made to Saguaro on the twenty-third, with Ranger Brewer. Today Custodian Brewer is giving office chairs a spray coat of paint; tomorrow James Walter Brewer, Jr., CMlc, USNR will be on his way to training camp and the bounding main. Best of luck Jim--and we'll be looking for that extra strength in the war drive in a few weeks--

Visitor War Reactions. Soldiers stationed at surrounding Army camps continue to comprise a sizable part of our visitors; the increase in visitors over last month is, in great part, due to the construction of nearby fields and bases, bringing many migratory construction workers through the vicinity. Traveling men whose territories are smaller due to rationing programs, and whose duties have been lessened by the lack of materials to sell, seem to find more time to visit the ruins. There is, however, a surprising number of visitors who make the trip especially to see the Casa Grande.

The largest party of some time arrived on the eighteenth; 15 jeeps rolled into the parking area and disembarked 41 negro soldiers, 1 lieutenant, and 1 mascot, Captain MacGuire, dog. The lieutenant was conducting a driver school, that was the day for training in convoy driving, and the Casa Grande was the objective. All were guided through the ruin and given Park Service leaflets.

Use of Monument Facilities by the Public. Guided trips to ruin: 124, totaling 5050 minutes, an average of 40.7 minutes a trip; museum trips totaled 52, and 1065 minutes. There were 525 visitors to the ruin, and 315 unattended visitors. Ticket sales numbered 369; of the visitors to the ruin, 98 were uniformed men of the armed services. There has been an increase in travel over the preceding month, but the travel year to date still shows a decrease of 46.66 per cent.

Nature Other than Human. No report on presence of owlets in the Casa Grande to date, unless occasional cluckings during the last week can be called conclusive evidence.

Rabbits continue to feast on all available growth and have laid low several compass cacti.

The rains of the month helped to bring the ocotillos to full leaf; some have noticeable red tips by now. The creosote is in full bloom.

Projects for Ensuing Month. Routine work as usual supplemented with lettering of the 246 signs and painting the dado in the museum.

Sallie will continue to work on the museum catalog between guiding and office work. Due to additional work laid out by the Superintendent's office, our work

lan for last month was disrupted, and some projects we expected to get done last onth are still waiting.

HACO CANYON, by Irving McNeil, Jr., Acting Custodian.

Visitors this month, 7; travel year to date, 112.

The custodian spent a total of four hours with seven persons who came in thre utomobiles and made up three parties. All cars were from the state of New Mexico t must have been the threatening skies and rain at Chaco which frightened the rospective visitors into believing that with mud they would use more gas than the ould spare, for after a heartening spurt ahead in the way of visitors in February here is a slump in March, but the fine late spring days, it is hoped, will lure ore visitors to the open spaces and Chaco. Nevertheless, the travel year to date s the same as this time last year.

After a particularly dry winter, March brought an inch and a half of rain and he stockmen nearby who feared that they would have to haul water are delighted wi ull tanks. The Chaco Arroyo ran for four days; the highest mark was one and seve enths feet. Vegetation in the canyon is just beginning to turn green as this is ritten. Incidentally, if any other custodian desires rain at his monument, just end for this one to grade his roads. The better the job, the harder the rain!

The trapper who came into the nearby area the first of the year for a stay of bout a month has found the results so pleasing that he is still here. For the ast two months he has caught more animals than anyone else in his district. He oticed livestock crossing the monument cattle guards, and suggested as a solution lacing a bear hide on the guards. Tricks to all trades.

All repairs have been made in the residence which were necessitated by the ecent fire, and there will not be another one soon if it can be helped.

The Chaco CCC camp is a thing of the past. The crew knew their business at ismantling the buildings; it was done quickly and efficiently. However, the truck rivers were not so efficient, for about five trucks were put completely out of ommission. The camp site was left as clean as could be expected.

Several patrols have been made horseback this month. There were a number of ead of livestock in the monument during one particular week. They were driven ou nd only one head has been seen since, but the custodian's fingers are crossed.

The large Chaco truck was loaned to Aztec Ruins National Monument for a few ays. They needed some sand and other materials hauled for ruins stabilization. t is not so bad taking Cal Miller material to work with (truck, cement and pipe ittings this time), but when he takes the two best workers out of the Chaco istrict to do his work...and laborers as hard to get as they are!!!

The Chaco custodian took a flying trip, literally and figuratively, to his ome in El Paso this month, and on the way back visited the Southwestern National onuments and Regional Offices.

The fire fighting crew has yet to be trained. When word got around that the CC camp was being moved, the Navajos began to appear from nowhere and were too usy competing with each other, hauling out scrap lumber, to be interested in fire raining. It is hoped that the project may be completed next month.

HIRICAHUA, by Frank Fish, Custodian.

Visitors this month, 301; travel year to date, 1,363.

Travel continues to be a Sunday business; in fact, of the 301 visitors, only 5 visited the area on days other than Sunday. One hundred eighty-six of the

people were from out of the state. While only 76 of the travelers were members of the armed forces, 62 other people either arrived with them or they arrived with other people, which makes 138 arrivals to the credit of the armed forces. One hundred sixty-three people can be counted as regular civilian guests. The present tendency in visitor changes appears to be an increase in horseback riding, mainly by members of the armed forces; the Faraway had 41 horseback days' use into the mon ment for the month. Most of the people using the horses arrive at the Faraway lat Saturday evening and leave Sunday evening. The above figures are actual and accur ate information compiled at the checking area at Headquarters. We have not inclu ed any estimated late visitors, peekers-over-the-fences, run-arounds, or just resi room-users. Counted visitor days use, total: 309.

Botany. Mr. A. Lefebure, who has just completed reworking the ferns in the University of Arizona Herbarium, spent the 17th, 18th and 19th in the monument and kindly went over our collection also, in conformity with the "Standardized Plant Names". Besides classifying the two undetermined species collected by Ora M. Clar four new species were discovered in the monument. (Having just received a note from the members of the Great Gyp Joint located near Alamogordo, accusing me of using big words, I submit our present determined fern collection: 1. Asplenium resiliens; 2. Asplenium trichomanes; 3. Cheilanthes eatoni; 4. Cheilanthes feei; 5. Cheilanthes fendleri; 6. Cheilanthes lindheimeri; 7. Cheilanthes wrightii; 8. Bommeria hispida; 9. Dryopteris filix-mas; 10. Notholaena Aurea; 11. Notholaena limitanea; 12. Notholaena standleyi; 13. Pellaea atropurpurea; 14. Pellaea intermedia; 15. Pellaea longimucronata; 16. Pellaea wrightiana; 17. Phanerophlebia auriculata; 18. Pteridium aquilinum; 19. Woodsia mexicana.) Another new plant was added to our herbarium with the discovery of the Arizona Stonecrop (Echeveria arizonica) growing at an elevation of 5500 to 6000 feet in Picket Canyon; as far as is known, this is the first report of this plant for Cochise County. The custodia enjoyed the two days spent with Mr. Lefebure and it is hoped he can return in the future for further research.

Maintenance. Work was continued on the cleaning of road gutters, surfacing of the roadway, stump pulling (by splitting the stumps with wedges we are able to remove them with the dump truck), planting of trees along the dirt cuts, trail maintenance, sewer and water maintenance, plastering and painting of worn sections of the residences, and the removal of unsightly trees from the headquarters area as requested by Superintendent Richey.

The main shaft which allows the turn table on the Wehr grader to be raised and lowered broke, and this entailed transporting an electric welding outfit from Willcox to fix it. On the trips to town in the dump truck to get the welding outfit, one being extra due to the welder's not being able to come the day he promise two poles for a sign at Willcox and 2200 pounds of scrap were hauled for the American Legion as a cooperative effort.

Access Roads, Mineral. Pete Windes has been informed by the Forest Service ranger at Portal that his road to the King of Lead claims has been turned down due to the excessive cost of building. The estimated cost of the proposed road was $10,000. This estimation was based on the construction of a fairly high type of roadway, with a minimum of twelve feet in width. From the Arizona Small Mine Owners publication, "Pay Dirt", it is gathered that the access road standards are too high for the purpose of the small mine owners and have resulted in many proje being turned down throughout the state. One small mine owner coins a new express in a letter to the editor, referring to a well known bureau as "the War Obstruction (?) Board".

Visitor Contacts. Interpretive services were given to 217 people in 54 part for a total time of 20-1/3 hours; all by the custodian.

Informational contacts or checking contacts were made with 301 people, in 69 parties, for a total time of 3-2/3 hours. Total contact time: 24 hours.

Since the Director's Office desires to foster better service to the visitor and also to know what is happening to our visitors upon arrival at the areas, I have attempted to show the two types of contacts given here and, being a "die hard still insist that there is a difference between information and interpretation.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 7; travel year to date, 102.

Weather. This being the month of March, the weather man has tried to live up to his reputation. We have had plenty of wind with a snowstorm every few days. Maximum temperature was 60° on March 13. Minimum, 6° on March 16. There were 15 clear days during the month. Had a dust storm on March 15. Total moisture, 1.22 inches.

General. We had two parties of visitors on March 21. The custodian spent a total of 3 hours showing them the inscriptions.

The custodian made a trip to Gallup on March 2, taking in our battery charger engine and shipping it to Santa Fe for repairs. He went in again on March 22 to get repair parts for the dump truck.

Maintenance, Improvements and New Construction. Much time has been spent this month in patrol duty and fixing fences. I find that the Navajos living nearb are still trespassing on the monument occasionally but I have been unable to catch them at it. These same Navajos have been accused of stealing and butchering 29 head of sheep belonging to another Indian. I think I shall give the monument a thorough search tomorrow to see if they might be hiding some of the meat in the Hidden Valley. Nine carcasses have been found by the Indian police not far from the monument.

Work at the water pool is progressing fine this month despite bad weather. We have had snow every few days, so that the water had to be pumped out before more cleaning could be done. At present the truck is being overhauled by two men. They expect to finish the job today so work can be started up again tomorrow. There are approximately 70 more loads of dirt and rock to be hauled out and we think this can be accomplished by the end of the week.

Projects for Ensuing Month. Construction of new dam at our water supply pool General spring cleanup.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 26; travel year to date, 202.

Continuing and Routine Projects. All items in this category are still continuing, and no routine of a monument nature accomplished except for a couple of small memos written while on duty with the Region and SWNM Headquarters. Entire month devoted to accomplishing much official routine of Headquarters and Region Three. Hope you fellows elsewhere in the monuments didn't get too big a kick out of my many errors--some time was certainly had by Parke.

Cooperative Projects. It would seem that this paragraph is going to become an institution in this report as we are doing our darndest to cooperate with the FFFS, but so far our official absence has forced us to postpone some of our organization. Will endeavor to accomplish a little before I return to Headquarters for another period of "special assignment." ("Special assignment" certainly covers a lot of sins.)

Continuing Projects. Approval has now been received from the state of New Mexico for pursuing our investigation of any of the prehistoric or historic water systems of Gran Quivira which occur on the state lands within the national monument. This work will probably get under way some time in May.

Miscellaneous. Our caretaker at Gran Quivira National Monument reports he has slain some fifteen more of our famed rattlers. The custodian and the caretaker made an inspection of all the various snake dens, the first chance I have had in locating all of them. Surprisingly, they are all around the Mission structures and house mounds. Our "treasure shafts" off and down the way are quite favored places for the scaly rascals. The caretaker also reports that a six-point buck deer was seen grazing on top of one of the numerous house mounds which dot the monument.

MONTEZUMA CASTLE, by Homer F. Hastings, Acting Custodian.

Visitors this month, 222; travel year to date, 1158.

General. Buds on the sycamores are swelling, the cottonwood leaves are out, and the smell of spring is in the air. Weather statistics are as follows: maximum temperature 82, minimum 26, mean maximum 69.89, mean minimum 36.35, clear days 14, partly cloudy days 6, total precipitation 1.34 inches. Beaver Creek reached its flood crest on March 4. Water ran through the revetment but did not go over the top and no damage was done.

Administration. Reports and office work were kept current.

Fencing material in storage here for the Tuzigoot fencing project was removed and taken to that monument.

Surplus electrical equipment borrowed from Walnut Canyon National Monument and left over from our power line alteration in December was returned to Walnut Canyon.

The project of photographing museum artifacts has been advanced as time would permit. Three hundred sets of pictures are now complete, but there are still some gaps in the numerical sequence where additional information is needed. One hundred sets that were in sequence have been mailed to Headquarters for the master file.

With the exception of one day, Ranger Reed has been at Tuzigoot National Monument since March 9. He was here on March 17 to relieve the acting custodian for a day off.

Soil and Moisture Planting. The project to plant willows for erosion control was started March 9 and completed March 12. In all, 250 cuttings from four to five feet long, and one and one-half to three inches in diameter at the butt, were set. Twenty-eight were planted along the creek between the east end of the revetment and a point in front of Residence No. 2, and the others were placed in the old water channel on the north side of the revetment.

Maintenance, Improvements, and New Construction. The trail from the visitor register to the Castle ladders was resurfaced. A short section of cribbing was built near the bottom of the first ladder and a fill made to improve the trail.

A leak developed in the museum roof above the case holding biological specimens. The case was opened and dried and the leak repaired.

Drain boards and cabinet tops in the kitchens of both residences were refinished and given three coats of varnish. The areas receiving the most wear were given five coats.

A drainage ditch was dug along the east side of the garage and the earth sloped away from the wall.

A new stone step was made for Residence No. 1.

Winter freeze protection was removed from the hydrants and drinking fountain, and the lines were opened.

Washed and waxed the pickup, USDI 1252.

Emptied, cleaned, and refilled the soda-and-acid fire extinguishers.

Installed a lumi-line light in the case holding biological specimens.

Cleaned out the aquarium in the museum and restocked it with small perch escued from among those stranded behind the revetment when the flood water eceded.

Guide Service. Total contact hours, 40.25; Hastings, 33.00; Reed, 7.25. uins trips, 29 for 118 visitors; museum parties, 24 for 89 visitors; information ervice, 35 visitors. There were three parties of picnickers totaling 21 people.

Ranger Hastings delivered an illustrated talk to 38 people at Soda Springs anch.

Use of Monument Facilities by the Public. Total cars, 50; Arizona cars, 41; otal states represented, 14; foreign countries, France; total visitors, 222. Two arties totaling 19 people came to the monument on horseback. Number of tickets old, 78; total revenue received, $22.50; members of the armed forces admitted ree, 10; children admitted free, 30, of whom seven were taxed.

NPS Visitors. Regional Soil Conservationist Balch was here to get the willow anting project started, and Foreman Stephen Jordan remained to see it through.

Accessions. A copy of "Standardized Plant Names" was received from the Headarters Loan Library.

Projects Planned for Ensuing Month. Complete project to photograph museum rtifacts. Apply a coating of linseed oil to our directional signs and markers, nd to the garage doors and facings. This is a project carried over from last onth. We also plan to trim the vines around the museum and spend some more time n a spring clean-up.

Visitor Reaction. Apparently many visitors feel obliged to explain why they ave come. After the preliminary greeting they often explain that they were going rough on business or were being transferred to a new station and thought they ould drop in.

AVAJO, by William W. Wilson, Acting Custodian.

Visitors this month, none; travel year to date, 16. This month last year, one; last year to date, 36 visitors in 16 cars.

NPS Visitors. George W. Olcott and Neal Butterfield from the Region Three ffice stayed overnight on March 17. I made the trip to Betatakin with them.

Weather. Mostly disagreeable. Only eight clear days during the period. .82 inches of precipitation in the form of snow, sleet and rain fell on ten diferent occasions. At this writing spring seems to have come suddenly. Low, 12° ove on March 19; high, 55° on March 8. High wind prevailed on several days.

Maintenance, New Construction, Miscellaneous. The corral is now ready for e wire. I borrowed a trailer from the Indian Service and brought my horse from e 77 Bar Ranch. One fire-tool box was packed to Betatakin. Three trips to etatakin this month. Everything is all right at the ruins and at the pump. No vidence of vandalism. Maintenance of headquarters area and office work kept rrent.

Projects for Next Month. Weather permitting, I will visit Keet Seel and nscription House, work road and do some outside painting. Will finish the corral, d pack tools down for fire-tool box if and when we can get some locks.

GAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 5044; travel year to date, 22,287.

Weather. One heavy rain, March 4, fell on all except a two-mile strip along the north boundary. This rain, although it was a good one, did not bring out our flower crop.

Travel. Another travel increase of 21 per cent over last month is shown on the records of the Immigration Office at the Sonoyta Port. Since November 25, 1942, travel through the monument has increased 54 per cent and the new road, in spite of the County's generous maintenance, certainly shows the wear and tear of all this traffic.

New Construction. Shortage of lumber brought the construction of the temporary building to a standstill on March 3, and if it hadn't been for the quick thinking of those two desert salvaging sailers, Al Bicknell and Jimmy Brewer, the framing of the roof would have taken a great deal of imagination. Work again has come to a stop, due to the arrival of a very distinguished visitor, Miss Julia Atlee Wilson, three days old, weight 7 lbs., 10 oz. This custodian took three days annual leave to make nocturnal observations and a great many changes.

Inspections. A very interesting afternoon was spent with Señor Nacho Quiroz, of Sonoyta, Sonora, Mexico, two miles east of Sonoyta where he showed me the big springs of the Sonoyta River, at the site of the original town of Sonoyta which overlooked a tule or swamp, now left high and dry by floods that have cut a channel fifty feet deep through it. I hope to visit the old hacienda at Santo Domingo with him as soon as I can find time.

NPS Visitors. Jimmy Brewer was a welcome sight on March 18 with a stake truck loaded with lumber, results of the super salvage job at Casa Grande. He received his call to the Navy on the nineteenth and I returned to Casa Grande with him to pick up my dump truck and the mixer. We certainly enjoyed Jimmy's working visits with us and will all miss him, but he will be indispensable to the Seabees, picking any material necessary out of thin air.

Projects for the Coming Month. The temporary building still holds priority. A survey of possible guayule sources will be made, and routine patrolling will be done along with the mapping.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 520; travel year to date, 2654.

Weather. We had a slow steady rain during the fourth and fifth. About 2 inches of moisture fell during this period. Tanque Verde and Rincon Creeks ran water for two weeks after this rain. Higher in the monument there are still quite a few drainages filled with water.

The ocotillo, penstemon, aster, wild onion, a few poppies and many other plants are starting to bloom. Most of the month has been moderately warm days with clear skies.

Visitors. We have had a total of 520 visitors this month, arriving in 143 cars.

Cars instate - 81	Army vehicles - 3	On foot - 1
Cars outstate- 59	Horseback groups - 4 (22 visitors)	

Guide time, J. Peavy - 14 hours, 10 minutes.

Roads and Trails. The Loop Road is in fair shape, although no maintenance work has been accomplished this month.

During pack trips to Manning Camp, some of the largest rocks were removed from the Taylor Trail. About seven miles of this trail is in bad condition and would take months for one man to rebuild, relocate and repair. Four trips up this trail and a set of horse shoes are worn out.

Manning Camp. One ton of hay, and fire tools for fifty men, were packed to he camp on March 6, 7, 8 and 9. A scarcity of suitable pack horses held up this roject and after we finally got 5 animals lined out, our hay supply was exhausted owever, we didn't lose a bale in packing. I had quite a time finding hay worth acking up the mountain. Since then I have found where to purchase suitable hay n the vicinity of Chandler. Now I can't locate any help.

Everything was in good shape at the camp. There was still a little snow on he ground and the mountain streams were running full blast.

One round trip to Manning Camp without any trouble takes from 8 to 9 hours. his time could be cut by at least three hours if the first seven miles of trail ere rebuilt.

Improvements. The pipeline to the 300-gallon water tank above the parking ot was dug up and salvaged. The tank was set up at the horse corral to water orses in a cement trough salvaged at Baker's Well.

Tanque Verde. I patrolled a considerable portion of the Tanque Verde Range n the vicinity of Box Canyon on March 22. The feed is very good on the high idges and very poor in the bottoms. I saw 15 White-tail deer, and lion tracks, n this trek.

I revisited the bat cave, but most of the colony has evidently not returned o their supposedly summer habitat.

Several prehistoric house sites were noted at the mouth of this canyon.

FFS and OCD. Attended FFS, OCD meeting on the second. I was the only USDI mployee present. Most of the problems taken up were USFS rangers' troubles with mployment and obtaining supplies for lookouts.

They don't know what trouble is. However, sometimes I think the larger the rganization at hand, the more difficulties an individual takes on. We are very ortunate that we have to worry only about lightning-caused fires.

The USFS has been very helpful to me and I think that in any emergency I can nlist their help.

I attended the USDA Club luncheon and heard Mr. Kirby, State Coordinator for he FFS, briefly outline the work. Also heard local OCD officials speak.

The meeting that afternoon in the USFS Supervisor's office was very similar o a custodians' conference.

Projects for Ensuing Month. 1. Make plan for temporary barn, now that have he material to start construction. 2. Possibly one patrol to Mica Mountain.

Noted Changes in Visitors' Reactions Due to War Conditions.

1. Army convoys discontinued.
2. More C cards appearing of late.
3. Surrounding dude ranches all have full quota of guests and are having ne of the best seasons for several years. Most horseback parties are from surounding "dude" ranches.
4. One visitor, a very nice Scot by the name of John McKay, walked out and isited the monument from Tucson.

Closing. Have had only two Service visitors this month, Jimmy Brewer and allie Brewer from Casa Grande, with salvaged building materials. I made two trips o Casa Grande during the month to obtain hay.

UNSET CRATER, by David J. Jones, in Charge.

Visitors this month, 156; travel year to date, 1163.

The travel data for Sunset Crater is based upon the assumption that only 50 er cent of the visitors registered. Actually, this month's travel includes some

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visitors from the early part of January prior to the time of heavy snows; however, this number is negligible.

Roads are in fair shape although there are some chuck-holes which will get bad before the summer is over. A tree has fallen across the road near the entrance at the highway and will have to be removed this coming month.

TONTO, by E. C. Gipe, Acting Custodian.

Visitors this month, 346; travel year to date, 1555. Seventeen from the armed forces. Twenty-two states were represented, Arizona leading with 45 cars. Two hundred people visited the ruins and 293 visited the museum. Two trips were made to the upper ruins. Thirty-nine people were contacted at the parking area, and there were two turn-arounds.

Personnel time. Custodian Gipe, 77 hours.

Visitor Reaction. Many of the visitors were more hurried this month than usual. Nearly all were enthusiastic about the flowers, of which there is a profusion now. All but a very few thought the trip worth the effort.

Newsworthy Visitors were Harold S. Tuff from the Office of the Secretary, Washington, D. C., and Herbert J. Clotts, Indian Service, Los Angeles.

A lively group, consisting of the entire Roosevelt School, their teacher, Mrs. Hester Packard, and two of their parents, were here on the twelfth. They made the round trip to both ruins, ate a picnic lunch on their return, and started home at 3:30 p.m., much pleased with their day.

Weather. Generally cold most of the month, and very windy. Showers at intervals all day March 3, and heavy rain March 4, 5 and 6. Several light rains during the rest of the month, and considerable cloudiness. Still cold at this writing.

General. Standards have been made for fire signs, all old signs repaired, and all painted in readiness to be put up as soon as paint is dry.

One trip made to Globe for gasoline and But-gas. The only other excitement, going to Roosevelt to post and receive mail.

Maintenance. Much work had to be done on trail as there were slides from the heavy rains. The road also washed out some, and considerable time was spent on that. All possible time is spent on wall and foundation work.

Wildlife. No new birds noted except a pair of mocking birds. The squirrel has returned to this area and other members of the outdoor family seem to be the same.

Projects for the Ensuing Month. Put up fire signs, finish inspection of fence line, and continuation of other work under way.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 526; travel year to date, 2797.

General. The travel rush has continued unabated. Visitors from overcrowded Tucson on their way to Nogales seem to stop more often now in comparison to the number of cars on the highway than ever before.

No rain fell during the month, so that range conditions are worse than they have been for many years.

Visitors. A total of 526 visited the area in comparison to 650 for the same month last year. Of this number, 431 were conducted through the mission ruins and the museum. Total contact time for the month was 79 hours and 10 minutes. Of this total, Caywood spent 35 hours and 40 minutes on contact time, and Mattison, 43 hours and 30 minutes.

Library, SWNM. A limited amount of time was spent by Ranger Mattison on ringing the Headquarters library filing project up to date.

Maintenance. Regular maintenance was performed on buildings, mission and rounds.

Repairs. The entire month was spent in repairing the roof, walls and floor f the storehouse. Three 5/8-inch rods and two 1/2-inch rods were placed in the alls to hold them together. The roof was removed, replaced and patched with itumuls. Rotten sections of the floor were replaced.

UZIGOOT, by Jack Cotter, Acting Custodian.

Visitors this month, 250; travel year to date, 1804.

Travel. The visitor total is up 72 from last month, showing that spring till has the power to make folks stir around, despite war restrictions.

Trends. Nothing new observed.

Guide and Contact Service. Museum, 21 hours, 5 minutes; field, 21 hours, 0 minutes.

Personnel Time. Acting Custodian, 29 hours, 25 minutes; Harry Reed, Ranger, 3 hours, 10 minutes. Harry was over for ten days to help out during the exigenci f the custodian's becoming a father, and a booming fence-building project. Harry ot only met the public upon occasion, but performed valuable service in improving nd repainting our signs.

Projects Completed or Continuing. The fencing project at Tuzigoot got under ay the twentieth, with three high school boys from Clarkdale who will work Saturays and Sundays, and continued the twenty-second with a permanent crew of six men nder the supervision of Mr. Stephen Jordan. The considerable difficulty encounted in getting timber cut for strain and corner posts was finally surmounted, and a arty has undertaken to do the work of cutting for us. Mr. Jordan made one trip o Coolidge by bus and returned with a 1½-ton truck and most of what will be neede o complete the fencing job. A second trip may have to be made, however. The ence job brought about a re-opening of the highly unsatisfactory controversy with ne County over the disposition of a road put across the monument without permissi ast year. The matter is still causing trouble, and must be the subject of furthe dvice from Headquarters.

Ruins reconstruction demolition in Unit IV proceeds very slowly. Two boys orking one day a week may prove insufficient to complete this work by the end of ne fiscal year.

A project of considerable duration was brought to a successful termination, arch 18, when the Acting Custodian and HCWP announced the arrival of their aughter, Jean Lambert. Tuzigoot is now preparing to greet the first baby to live n the old hill top since the Pueblo folks left 600 years or so ago. By a happy oincidence, the HCWP is finding herself right in the Park Service fold at the erome hospital. At night she is in the expert nursing care of Mary King, and by ay, in the equally expert care of Mary's mother who also nurses there! (Dale lease note.)

ALNUT CANYON, by Paul L. Beaubien, Acting Custodian.

Visitors this month, 152; travel year to date, 1,871.

General. Numerous storms kept many visitors away, and the acting custodian orked inside a lot when there was more important work to do elsewhere.

Visitors. Of the 152 visitors, 42 were not contacted and it is estimated hat 75 made the ruins trip unattended. Hours spent in interpretive contacts are s follows: Beaubien, 24.

Activities. Found leak in water line and repaired it with the help of Ralph Fish who was given two days of work; attended fire school of the Coconino National Forest and FFFS meetings; took one day of sick leave and one day of annual leave; accumulated and loaded out some fencing tools and materials for Tuzigoot; transplanted a few flowers to parking area; got the comfort station in operation again; did some general spring cleanup; acquired an anvil from Glacier National Park; spent a day replacing tires on dump truck with some used ones sent from Coolidge; dragged the roads several times trying to obliterate ruts; made a trip to Wupatki in vain attempt to unclog sewer with borrowed sewer tape; and, worked on signs some.

Projects for Ensuing Month. Beyond regular chores, there is almost a month's work to overhaul telephone line. Fire tools will need reconditioning before May.

WHITE SANDS, by Johnwill Faris, Custodian.

Visitors this month, 2,477; travel year to date, 13,418.

The loss of one of my rangers, nineteen days of the month with wind, and a few extras such as expendable inventories, another plane crash, a decided rise in armed force use, my grader operator requiring several days sick leave, and the White Sands National Monument will be months catching up with all we have, of necessity, neglected this past month. Several man hours, too, were spent going over grazing permits with the Grazing Service and a cooperative fire fighting plan was entered into with that Service. We have experienced some hard luck with our equipment but nothing serious, we hope. More than normal time has been given to outside agencies and cooperative agencies, all, I trust, to the advantage of the Service. Our one large Army group, under Colonel R. L. Donigan, consisting of some 875 men, were all exceptionally well behaved and their visit enjoyed very much.

As stated above, much of the custodian's time was with cooperative agencies and agreements of various nature. One trip was made to El Paso in connection with repairs to equipment, tire repairs, et cetera. Final arrangements were completed in regard to the transfer of David C. Winslow to the Army Air Base here. As yet no word has been received as to when we might expect someone in his place, but Paul and Joe are both doing all possible to keep up as best we can. This past month we could have used several additional men instead of being short one as we were. One trip was made to the southwest section of the monument wherein I tried to combine an inspection of the area with a special investigation of an aeroplane crash within our boundaries. The range was found to be in good condition and, though dry, we have some fine grass in that area. The crash was covered in a special report, but I might add that the plane was picked up by the base and several truckloads of wreckage brought out.

Our weather has not been especially favorable to enjoyable visits to the White Sands since nineteen days of the month were windy, several of which were extreme. Our high temperature of the month was 78° on March 9, and the low was 17° on March 3. Only a trace of moisture was noted for the entire month. This in itself tells a sad story on the amount of road work to be done.

It looks very much like our grazing permits will fall short of last year in spite of the need for meat. One permittee will graze only a few head, the Baird Estate plans to cut their number, and so far Luceros' are the only ones to plan any increase. They may all change their minds, however, between now and the time the permits are made up.

Probably our greatest publicity unit of the month was the 534 C. A., A. A. Division. Some 875 boys were in and I mentioned, in talking to the group, that

would send leaflets to anyone requesting them. The last few days every mail s brought us requests for information. Indiana, Ohio, Kansas, Missouri, Iowa, xas and Kentucky are among the states we have heard from to date. This, with creased travel here, should spread the gospel of our area very well.

No complaints were made to this office. The Army use has in several instance. quired that visitors come to the residences to get in, but we are glad to let ther at any time. Late evening traffic has been gaining and, of late, hardly an ening goes by that we do not have one or two cars go in after closing hours. If is keeps up, I may have to split my shifts much earlier than I want to.

No other than routine maintenance, and no new construction has taken place. do feel we have made many improvements in rearrangement of expendable supplies d storage facilities. Soon we hope to be able to work these new woodworking ols acquired from Lake Murray; one end of the warehouse is being more or less voted to this equipment.

As is shown in our operator's report, the White Sands Service continues to do good business. Tom is still very low and little hope is held for his recovery. om Charles died March 26, after this report was written. Ed.) The rubber shorta e affects our White Sands souvenirs in that rubber was used for all molds.

The Grazing Service, as usual, has cooperated with us in an agreement on fire ghting plans whereby we feel both agencies will benefit. The Army is working on plan which should enable us to be of greater assistance in case of future crashes our area.

The Alamogordo Chamber of Commerce is working on a small leaflet for the many quests by the armed forces on attractions in and close to Alamogordo. Much space being given to the White Sands.

The U.S.O. has sponsored several picnics and plans to enlarge on this phase their program as summer advances.

As you know, we have received many of my father's books on Indians and history the West. These will be available as soon as we can get them listed and number l. I have all El Morro's early inscriptions as recorded and drawn on September , 1849 by Lieutenant J. H.Simpson, U. S. Army, and R. H. Kern, artist. Very kely many other interesting things will be found as I can look them up. Guide d museum service, of course, goes by the way with only one contact man most of e time, and him held to the checking station. Of course our 30 minutes with 875 ldiers brought up our contact time this month.

Several lights in the museum have been bad and we are not enough electrician find the cause. The remedy may be in a new unit throughout in several cases.

We are quite proud of our increase and taking out our large party, we still n almost up to March last year. Thirty-three states and Canada were represented March 1943.

It was my pleasure to show a cousin of our Associate Director Demaray the nds. He was with the Air Base here.

Steel has been engaged with myself, when possible, on our inventory of expendle property. Joe made one trip to the scene of our old crash, guiding an inspecon party. Many more plane crashes and we will need a full time man for service a field guide. Much time is given to janitor work, as the heavy winds leave eir mark. When travel returns to normal, one of our first requirements will be r a janitor. Mention has been made of the fire plan agreement between ourselves d the Grazing Service. I hope this will fit all our needs.

The Army proved to their satisfaction, and that of one of my rangers, that a ep will turn over in the sands. On an experimental run a scared driver (not my nger) turned over and no one was hurt. The jeep suffered a shattered windshield d bent top, the ranger a few sore spots the next day. The jeep returned to El so on its own power and on schedule, so all was well.

Joe Shepperd had an operation on his neck and was off a few days. He is out again now and going strong.

The war program has certainly taken its share of our time this month both directly and indirectly, but we are glad to assist where we can.

The average visitor seems to be getting out more now. Perhaps it is just the fact summer is on its way and traffic is normally on the move. The coming month should be interesting from this angle. We should also show a decided drop in visitors now with Play-Day out for the duration.

Anyway, Chuck, we have reviewed March and promise to do what we can to catch up in April, maybe work over some equipment or do a little spring housecleaning such as painting our restroom floors, et cetera.

By the way, if our figures are not right, it is Parke's fault. He gave us a bum calculator. It is a wonderful help and thanks a lot. The Dalton is being listed as surplus.

WUPATKI, by David J. Jones, Custodian.

Visitors this month, 39; travel year to date, 280.

Travel. Our travel is made up mostly of members of the armed forces and locals who have saved up their gas to make the trip. During the past few months Wupatki has attracted a greater proportion of the travel than the Citadel. This month 14 persons registered at the Citadel and 25 at Wupatki. While visitors are scarce in comparison to the old days, they stay longer, the custodian having spent 16½ hours in contact work this month.

Recently the sale of publications has boomed. Arizona Guidebooks seem to be in demand since on the past two Sundays we have sold six copies. The public seems to be doing what they should have done a long time ago: learning what they could about a place before they visited it.

Fire Protection. The training of a Navajo crew for fire fighting, which was planned last month with Acting Custodian Beaubien, has been held up indefinitely because the OCD is not prepared to undertake the program at this time. In any event a crew will be organized before fire season. One afternoon was spent with District Forest Ranger McClure discussing the coming fire season and utilization of Wupatki Navajos. The Forest Service has requested that we maintain a radio schedule three times daily.

Stabilization. Imagine our surprise to visit Wukoki and find that the wood shoring installed by the Ruins Stabilization Committee had disappeared. Frankly, I would never have undertaken the removal of the shoring without fear and trembling as the wedging action naturally displaced the masonry to a certain extent and there is 1-1/2 stories of wall above the opening that was braced.

The culprit has not been found to date, but it was apparently one of the Navajos. Three days were spent investigating this, and six days stabilizing the wall with masonry and structural steel. When the present work has had time to set, it will be necessary to spend three or four more days on the job.

General. Among other things accomplished during the month was a physical plant index, completion of the inventory and labeling of supplies. One of the main reasons for the failure of our planting in the rear patio of the residence was discovered. The initial planting was done by CCC and in preparing the beds they had used a fill of cinders, rock and sterile earth, except for the last few inches of soil on top. It was necessary to remove all this and put in good soil so that someone will have some vegetables to live on this summer. One-half day

s spent on revegetation of the parking area.

The chore of cleaning soot from the chimney was made easier by using a short ngth of cable which was unraveled at one end to make a broom--it sure removes ot in a hurry.

Items of Unusual Interest. Early in the month Paul received a telegram for from Mr. Buchanberg asking that I get his short wave radio to the Navy as soon possible. Paul radioed the message to me and within 24 hours the radio was in e local Express office. Such speed frightens us and bodes ill for the day when ur boss can get in touch with you on a moment's notice. Later a letter of ex- anation came from Buchy: the Navy requires very powerful receivers to pick up e walkie talkies in the jungles. When they found out that Buchy had one they nted it in a hurry. This sort of boosted our mileage for this month, but it was r a good purpose.

One of the little Navajo girls came in with the story of an aeroplane flying er the monument and dropping parachutes with small boxes attached. She had seen em fall, but was afraid to touch the boxes for fear that they would explode. We companied her, found the boxes and parachutes, and returned them to the Signal rps as the instructions requested. Later we received a letter from the Signal rps which explained that as the instrument passes through the atmosphere it sends t weather reports which are picked up by radio at the station from which the dio Sonde was released. They want the instruments returned for salvage.

A copy of an article on prehistoric conservation methods by W. R. Stewart SCS was received. It contains a mention of the prehistoric terraces and garden ots along with wind erosion checks which Stewart studied here.

PPLEMENT

The following information of interest to the field was extracted from the perintendent's March Narrative Report for the Director.

General. March was an extremely busy month with a multitude of routine and ecial work, and every effort was made to bring office work current. Custodian ulouse of Gran Quivira National Monument was on special assignment in the office r three weeks.

An inventory of all property in field areas was taken and special effort has en made to reconcile field and headquarters records. Work is now approximately fty per cent complete.

A change in outline of work for accounts in field areas and headquarters, to just working accounts and make allowance for overtime costs, was completed and bmitted to the Director's Office.

All field areas were circulated for availability of excess automotive equip- nt and tires, and declaration of property for the excess was submitted to the oper office of the Procurement Division and your office.

An efficiency rating committee was appointed and forms prepared for all em- oyees and transmitted to the rating officers selected.

Special Activities. Superintendent Richey was on duty in Santa Fe the entire nth, and was Acting Regional Director in Mr. Tillotson's absence March 7 to 23, clusive.

Assistant Superintendent Maxwell made a trip to Lake Murray Recreational monstration Area, Ardmore, Oklahoma, to dispose of the RDA property in connec- on with the transfer of that area to the State of Oklahoma. While in Oklahoma made a study of the artesian wells at Platt National Park in view of the proposa

to drill an artesian well within the park boundary. In this connection he had a meeting with the State Geologist, a representative of the Ground Water Division of the Geological Survey, and former Regional Geologist Gould. The rest of the month was spent in the office, helping in the dispatching of business of Southwestern National Monuments and the Region Three Headquarters.

On March 8 and 9, Hydraulic Engineer A. van V. Dunn of the Water Rights Section, San Francisco, was in this office where, with Regional Engineer Lassiter, pending water rights matters for areas in Region Three were given special consideration. A meeting was also held with Mrs. Evelyn C. Frey and Messrs. Dunn and Lassiter regarding the pending application for Bandelier as related to her existing rights. The water right application was filed with the New Mexico State Engineer following this meeting.

Mr. Joe Stevenson and a Mr. Branden, representatives of the civilian set-up of the Los Alamos (Zia) Project, called on the Superintendent in connection with taking over the Frijoles Canyon Lodge at Bandelier to house workers permanently assigned to the project. Meetings were arranged between Messrs. Stevenson and Branden and Mrs. Frey to negotiate terms. The original use was for a temporary period of about two months. Since these meetings, Mr. Stevenson has informed the Superintendent that the negotiations have been turned over to U. S. Army Engineers, but no further contact has been made at this office.

Meetings were held with representatives of the U. S. Forest Service regarding a right of way permit for their telephone line over the Otowi Section (Bandelier National Monument), where the Army Engineers of the Los Alamos Project are requiring that the existing line be moved because of nearness to the area. A location satisfactory to the Service was agreed upon. Negotiations were completed with engineering representatives of the Mountain States Telephone and Telegraph Company for right of way for their telephone line, by Special Use Permit, over the Otowi Section, Bandelier National Monument, to serve this project.

As chairman of the Service Committee for the Red Cross for the Region Three Office, it is a pleasure to report that $253.72 was contributed by thirty-six employees of this office, making an individual average of $7.05 per employee.

Special attention was given by the Superintendent and the Group Chairman to increasing war bond purchases for Southwestern National Monuments personnel. We are pleased to report that participation for our 26 areas and headquarters for March was 90.49 per cent of our employees, 12.77 per cent of total payroll in bond purchases, with an average purchase of $23.94 for employees participating.

Decrease in Travel. Both Organ Pipe Cactus and Bandelier National Monuments maintain their increase in travel. Bandelier made a slight increase, to 25 per cent over last year. Organ Pipe Cactus had travel for the month in excess of 5,000 persons, resulting in a 436 per cent increase over a year ago. All other areas continued to show a decrease except Chaco Canyon National Monument which, by coincidence, shows exactly equivalent travel for both years. The total decrease for Southwestern National Monuments, as a whole, amounted to only 9 per cent.

Personnel.

Appointments

Jerome W. Hendron, Ranger, Bandelier National Monument, entered on duty March 20, 1943.

Transfers

Imogene C. Brooks, Assistant Clerk-Stenographer, Region Three Headquarters, to Southwestern National Monuments, effective March 26, 1943.

Change in Status

Charlie R. Steen, Junior Park Archaeologist, to Assistant Naturalist; entered on duty in new status March 16, 1943.

Furlough for Military Duty

James W. Brewer, Jr., Custodian, Navajo National Monument, reported for active duty on March 26 to the Seabees.

James M. Eden, Ranger, Bandelier National Monument, left on March 12 for active duty with the Seabees.

Separations

None.

Births

Baby girl, Julie, to Bates and Edith Wilson, Organ Pipe Cactus National Monument, on March 22, 1943.

Baby girl, Jean Lambert, to Jack and Virginia Cotter, Tuzigoot National Monument, on March 13, 1943.

Deaths

Tom Charles, former Custodian of White Sands National Monument, on March 26, 1943.

* * * * * * * * * *

We take our hats off to Johnwill Faris of White Sands for his initiative in conducting an In-Service training school. Although this type of training is always important, it is paramount at this time because of the numerous changes in personnel due to the war, making it necessary for all of our employees to carry a greater burden of responsibility.

Johnwill's training course was based upon the one given by Chief of Operations Tolson at the Region Three Office in 1941, and was completed by examinations. Since questions presented at this school should be of interest to every one, the questions of the first examination follow. Those of the other two examinations will be run in subsequent reports.

NATIONAL PARK SERVICE TRAINING COURSE QUESTIONS
White Sands National Monument - December 1942

First Examination

1. When was the White Sands National Monument created? Who signed the proclamation making it a national monument? What act of Congress was necessary before this was possible? Basically, why were we set aside according to the proclamation? Who was the first custodian? Permanent ranger? And when?

2. What are the Southwestern National Monuments? Name as many as you can, giving their approximate location, and very briefly the major attraction of each. Name as many custodians as possible--prior to losses to the "armed forces". Where was, and at the present time where is, our monuments' central office? Name the past and present superintendents of the Southwestern National Monuments. Assistant superintendents the same. Who is our present chief clerk?

3. Who was "the Boss"? Why has he meant so much to the Service, and the Southwestern National Monuments particularly? Have you carefully read the following articles concerning him: Arizona Highways, April 1940; Southwestern National Monuments monthly report, February 1940? Have you read his final address to the custodians in conference? Did these articles give you any insight as to the character of "the Boss" and his effect on our "esprit de corps"?

4. Give a brief summary of the history of the White Sands National Monument from its inception to June 1940. What agencies did much of our work: roads, buildings, utilities, et cetera? Who designed our buildings? What agencies did our museum exhibits? Who "made up" our exhibit plan in its early stages? Who is Dale King? Natt Dodge? Charlie Steen? Gene Rhodes? Blazer? Garton?

5. What about our "red lakes"? The ox-cart? The stone disks? Selenite? Give the formula for gypsum plaster of Paris. Where is Lake Lucero? Old Mesilla? briefly

6. Where is the office of Region Three located? Can you give the other regions and their locations? Who is our Regional Director? What are the functions of a regional director?

7. Name the parks in Region Three. Name as many of the superintendents as possible, and give the state in which the park is located.

8. Name as many technical branches of Region Three as possible and give the chief where you can. Very briefly, what are the duties of the Engineering and Plans and Design chiefs?

9. Who is the Regional Geologist?

10. Can you tell how many parks, monuments, recreational areas, and national memorials are in Region Three? Can you give the total number of areas administered by the National Park Service?

* * * * * * *

PERSONNEL NOTES

News of the death of Tom Charles at the Alamogordo Hospital on Friday, March 26, saddened everyone throughout the Southwestern National Monuments. Tom was one of the "old gang" who pioneered the national monument idea in the Southwest. Not only was he one of the Boss' staunch supporters, but much of his time throughout the later years of his life had been devoted to promoting and publicizing the White Sands. It was largely through his efforts in organizing public opinion and in coordinating the efforts of civic groups that the White Sands was proclaimed a national monument.

Tom's funeral was held on Sunday, March 28, Johnwill Faris, David Winslow, Paul Steel, Joe Shepperd, a Border Patrol official, and a National Forest supervisor serving as pallbearers. The funeral was conducted by the Alamogordo Masonic Lodge. Mrs. Charles will carry on Tom's insurance business and wishes also to continue the operation of the concession on the monument.

Tom Charles, who was 68 years old at the time of his death, was a native of Kansas and was graduated from Kansas University in 1897. He had resided in the vicinity of Alamogordo, New Mexico, since 1907, having established a homestead there. Fascinated with the lure of the White Sands, he early realized the importance of the phenomenon as a tourist attraction and was a leader in the movement which culminated in the proclamation making it a national monument in January 1933. Because of his interest in the development of the monument, he accepted the unsalaried position as its first custodian. After getting the monument well under way as a unit of the Southwestern National Monuments, he resigned in order to give his attention to his real estate and insurance business and his many civic responsibilities. He later established a concession on the monument under a public operator's license. His booklet, "The Story of the Great White Sands", and his thrilling Dune Rides contributed much to the pleasure and interest of visitors to the monument.

Tom Charles was a good man. He was a good father and husband, a good citizen, and a good friend. He devoted his life to the benefit and the progress of his community. In fathering the White Sands National Monument, Tom Charles contributed a page to the nation's history of progress in conservation and recreation. The thrill of pleasure and inspiration which will be experienced by millions of visitors to the White Sands, people of generations of Americans yet unborn, is an everlasting memorial to the work he has done.

To Mrs. Charles and their four sons and daughter, the people of the Southwestern National Monuments extend their deepest sympathy in their loss. Yet deprived of his presence, members of his family will glory in the memory of his personality and derive comfort from the deserved respect of the community.

Jim Eden (Bandelier) left Santa Fe on March 12 for Norfolk, Virginia, to enter the "Seabees". Judy is staying with her folks in Bayfield, Colorado.

Davey Jones expects to be called for active service about April 15.

Jimmie Brewer departed from Casa Grande National Monument March 26 for service with the "Seabees". As ranger at Casa Grande, Sallie will see to it that the Brewer name keeps its place in the monthly reports.

Addison Pinkley, son of Boss Pinkley, completed a ten-week course at Naval Officers Training School at Princeton University and has gone to Wisconsin for further studies.

Julian Hayden is with the U. S. Engineers at Yuma, Arizona.

First Lieutenant Tom Onstott (Tonto, de Chelly, Bandelier seasonal) is training recruits at Fort Benning, Georgia.

Jack Andrich (seasonal Hovenweep-Yucca House) is a mechanic at Thunderbird Field, Phoenix, Arizona.

A note from Dale King states that he is still at McTill Field, Tampa, Florida, and that he enjoys receiving "Personnel Notes".

Bill Supernaugh, now at Officers Training School in Fort Belvoir, Virginia, writes that he is taking a four year college course in three months. Classes are from 7:30 AM to 9:00 PM. That should not be difficult for Bill who was accustomed to being on the job at Organ Pipe from 6:00 AM to midnight seven days a week.

Recent arrivals in the Southwestern National Monuments fold are Julie Atlee Wilson, who put in an appearance at Ajo, Arizona, on March 22; and Sean Lambert Cotter who checked in on March 18. Bates and Jack both went through the ordeal like heroes. Julie weighed in at seven pounds, eight ounces, but no statistics have yet been received from Sean. Congratulations from all of us are conveyed to Bates and Edith and Jack and Virginia.

Ray Mattison at Tumacacori holds the distinction of being the SWNM's first "war widower" and "officer's husband". Doris is now a Second Lieutenant in the Medical Corps at Davis Monthan Field, Tucson, where she is serving as a dietitian.

The Steens, including Mary, Alison, "Yazzie", and Charlie and his pipe, are now "at home" in their new residence in Santa Fe, on Old Canyon Road, and Charlie's desk at the office is open for business. The Steens endured numerous annoyances and inconveniences in getting moved, but are now comfortably settled. With the arrival of Princeton, the cat, who will come caged and by express, the Steen family will be complete once more.

Discovery of two skunks in the storm sewer system at the headquarters office aroused Natt Dodge's naturalist and photographic instincts. Several pictures were secured, but not without cost, which was shared by every person who entered the Interpreters' Office for several days after the episode.

Charlie Wyatt writes from Kilgore, Texas, that his work with the East Texas Salt Water Disposal Company is interesting as well as confining. His average work day is 12 hours. He not only assists with the design of pipe lines which gather the salt water brought up with petroleum, but he helps out the contracts and sees that they are properly signed before authorizing that pipe connections be made. The whole Wyatt family likes the town which is quite modern.

Charlie Sharp (Relief Ranger) is now in Lincoln, Nebraska, working in an ordnance plant, covering an interval between basic and advance cadet pilot training.

Reports from Chicago indicate that Mrs. Miller underwent a serious operation recently, but that she is recovering rapidly.

Polly and Tom have been having exciting adventures in Panama. Bina received a letter from Polly and it may be possible to run part of it in the "Grapevine" or a future "Personnel Note".

"Goodie" Goodwin telephoned Parke several weeks ago, stating that he was departing on another cruise and that he was anticipating a foreign assignment that would prevent his return to "the States" until after the war.

The position on Parke's staff vacated by the marriage of Johnnie Sparks has been filled, effective March 26, by Imogene Brooks, formerly of the Region Three staff. Gene demonstrates her patriotic cooperation in the war program by coming to work on horseback.

Ted Sowers has bugs! That is, Canyon de Chelly National Monument has bugs. ne variety, as yet unidentified, is causing a commotion at monument headquarters here many individuals are getting into residences and biting the occupants. Ted as sent samples to Headquarters with the plea, "Please identify, give instruc- ions for extermination, and tell us what to do for the bites. Please hurry!"

Art Thomas' neighbor, the big Army base at Los Alamos School, is not a sub- arine base after all. It is definitely known to be located near the vent of the ncient Jemez Volcano which has underground connections with Fujiyama. It was verheard around Santa Fe: "Camp workers will clean out the passage through, and emolition squads will place explosives under the island of Japan. At the proper oment President Roosevelt will press a button at his desk in the White House, nd bloo-ie! Allied planes flying above Tokio will give eye-witness reports via adio, and a half-holiday will be declared so that we can all listen in."

We note in McNeil's report from Chaco that he plans to place bear skins on ll cattle guards to keep stock from jumping over them. Excellent idea, Mac! here and when do you intend to get the bear skins?

Following is a postscript to Jack Cotter's monthly report: "We are happy to eport that all work on the monument was completed by the HCWP before the stork ook over. In fact, the stork lost the race by such a large margin that she was ble to finish the bird calendar in the interim."

The following war thriller was composed by Jack Stonehocker and well merits ublication. It is entitled "The Lost Navy Gunners". Here it is:

> "Ned and Ted were two Nave guners. One day the ship was broken and they tried to fix it but it could not be fix. So the crew got all the stuf they could get and went out on ruber life raftes and were on them for 21 dayes. And the Germans half of us and the rest made there way out of the mess. They took us to an concontrathion camp. But we made an escape. We got quit a little of German guns. We captured a whole Natsi town before we were caught again. We made escape out of soom matrial we found. We found a Jeep and got the mottor and stiring wheel and a few other things out of it. We started out for the Gulf of Mexico and went to the United States by ariplane. We got on a ship and were out fighting in a little whole so that we could have some sprot. We got furlo and went home. When we got back we could not fight because we were too old. So we went home and dide of old age."

The preceding is eclipsed for honors as "letter of the month" only by the ollowing which is a bona fide copy of a request for information received by he Custodian of Casa Grande National Monument. The request came on a penny ostcard.

> "Dear Sir: I am wanting illustrated history of all beauty spots of Arizona such as caves, caverns, mts., canyons, cliff dwellers, sand dunes, cactus, painted deserts, & others, petrified forests, dams, lakes and other scenes, rocks and rock formations, springs, all waterfalls, ruins, nat'nl forests, parks & monuments, Indian reserves, natural and other bridges, glaciers. Do you have any pamflets, folders, colored pictures, or other liteature. Please send State flowers, & ect. & good road map with all historical spots printed in red. I can't get a good map, seems like. Respectfully" (Sgd.)

Al turned the job of answering the request over to Ranger Brewer, and Sallie was figuring that if she did a complete job she was sure of a position with the Park Service for the rest of her life.

HCWP'S ATTENTION!

With Corky Jones leaving Wupatki and Sallie Brewer a "working gal" at Casa Grande, the staff of the "Grapevine" has dwindled to its treasurer, Winnie Caywood. Since no one has volunteered to continue gathering material, editing, and publishing the "Grapevine", Sallie suggests that its function be taken over by an enlarged and amplified "Personnel Notes" supplemental to the monthly report. She suggests further that funds in the "Grapevine" treasury be used in sending "Personnel Notes" each month to all Southwestern National Monuments personnel now in the armed forces.

Sallie's suggestion seems very practical, and Headquarters staff members will be glad to cooperate. However, it is essential that everyone in the field, especially the HCWP's, be on their toes and send in items of interest regularly and consistently. Unless everyone cooperates, there will be no personnel notes. It is suggested that personnel notes be submitted with the regular monthly report, but that they be placed on a separate sheet of paper from the report proper. This will aid materially in the editing of copy and save a lot of time at Headquarters in compiling the "Notes". C.A.R.

MARCH 1943 - TRAVEL RECORDS

Station	March 1943	1943 Travel Yr. To Date	March 1942	1942 Travel Yr. To Date.
Arches	29	333	7	653
Capulin Mountain	400	3200	400	8200
Chiricahua	301	1363	247	2589
Natural Bridges	0 *	47	0 *	15 *
Organ Pipe Cactus	5044	22287	150	4160
Rainbow Bridge	0 *	0 *	0 *	0 *
Saguaro	520	2654	1098	7243
Sunset Crater (snowbound)	156	1163	82	1512
White Sands	2477	13418	1730	15169
Total Biol-Geol.	8927	44,465	3714	39,541
Aztec Ruins	276	1538	133	1750
Bandelier	140	1301	38	1042
Canyon de Chelly	8	168	15	470
Casa Grande	840	4672	1397	8759
Chaco Canyon	7	112	1	112
El Morro	7	102	0	199
Gila Cliff Dwellings	0 *	10	0 *	10 *
Gran Quivira	26	202	72	628
Hovenweep	0	18 *	0 *	30 *
Montezuma Castle	222	1158	304	2823
Navajo	0	16	0	36
Tonto	346	1555	522	3230
Tumacacori	526	2797	650	3777
Tuzigoot	250	1804	393	2689
Walnut Canyon	152	1871	233	2475
Wupatki	39	280	83	728
Yucca House	0 *	10 *	0 *	20 *
Total Hist. & Arch.	2839	17,614	3841	28,778
GRAND TOTAL FOR MARCH	11,766	62,079	7555	68,319
Last Month	8,592	50,313	8,919	60,764

* Estimated Travel.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

May 12, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

April narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge returned April 1 from ferrying two pick-ups to the Headquarters Shop. He spent the balance of the month in the office on routine headquarters and regional naturalist's activities. He aided in moving office equipment, library publications and the stored stock of informational leaflets to make room for the Army group which took over a portion of the headquarters building.

Naturalist Steen spent the entire month in the office, revising and bringing photo files up to date, forwarding the Walnut Canyon museum exhibit preparation project, revising the culture chart of the eastern San Juan Basin, obtaining information for use in the geologist section of the Canyon de Chelly multiplex display, and preparing project construction program proposal sheets covering planned interpretive developments for all of the Southwestern National Monuments.

Extension Services. A talk, illustrated by colored motion pictures of the national monuments of Arizona and New Mexico, was presented to the pupils and teachers of the Brownmoor School on April 3.

New or Unusual Activities. In addition to ferrying pick-ups to the Headquarters Shop, preparing the eastern San Juan drainage culture chart, and moving the Interpreter's office and library, the interpretive staff assisted the Chief Clerk's staff in the checking of travel reports (Form 10-157), and assisted the Regional Forester in moving and setting up equipment in preparation for the Regional Fire Fighters' Training School.

Progress of Exhibit Plans and Projects. The Walnut Canyon and Canyon de Chelly exhibit plans were advanced, and the museum development plans for all monuments were forwarded by the preparation of project construction program proposals.

Library. Due to the return of the acting librarian to her home in Colorado, the accession and cataloging project which had been carried on since November 1942 was terminated on April 14. More than 1,200 publications were accessioned and cataloged, but a great number still remain to be done before the library is brought up to date. Librarian Gertrude Hill of the Flagstaff Public Library contributed 306 issues of the National Geographic magazine and 17 copies of Natural History magazine. In addition, 8 books, 18 periodicals and 21 reports were received.

Office Visitors. The following persons had business in the interpreter's office: Custodian Thomas and Ranger J. W. Hendron of Bandelier; Superintendent Whitcraft of Petrified Forest; Harthan Bill, Assistant Chief Ranger of Grand

Arizona Arc[illegible] Center Library

Canyon; Mrs. John W. Chapman, Executive Secretary, Laboratory of Anthropology; and former Director Horace Albright.

Miscellaneous - Overhead - Routine. Ninety-two letters were written during the month. Considerable assistance was rendered to field men in the solution of interpretive and technical problems. The usual number of reports were prepared and a normal number of requests for information answered.

Regional Naturalist Activities. Consideration was given to handling the matter of purported beaver trapping in Boulder Dam National Recreational Area. A project was initiated to secure the submission of project construction program sheets on proposed interpretive developments for all areas within the region. The field was circularized to obtain the submission of several reports requested by the Director's Office. Two manuscripts prepared by Assistant Naturalist Grater of Zion and Bryce Canyon National Parks were reviewed. Photographs of Region Three Office personnel were taken to complete the personnel files.

Projects Planned for Next Month. Naturalist Steen will visit Chaco Canyon, Aztec Ruins and Hovenweep National Monuments, on ruins stabilization projects. Following his return, he will undertake the project of bringing interpretive outlines of master plans for all Southwestern National Monuments to completion. Steen and Dodge will attend the Region Three Fire Fighters' Training School at Bandelier National Monument. It is hoped that time will be available to go through all unaccessioned publications in the library and sort out those available for transfer to other Park Service areas.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 350; travel year to date, 1888.

General. Our travel this month has been predominantly local, as usual. People from Aztec, Durango and Farmington bringing friends who were visiting them. On the whole they have been unhurried and showed very much interest. It has been noted that a number of commercial travellers who have been covering this territory for a number of years are paying their first visit to the area.

The two CCC trucks, which were transferred to Service accountability, were advertised for sale by the Denver Procurement Office during the month. The bids were opened shortly after the first of April but we have had no official notification as to who were the low bidders and no one has come to claim them.

The Custodian was down with an attack of flu from March 25 to 28, inclusive.

The Custodian's son, Art, could not stand the pressure so enlisted in the Navy and is at present stationed at Camp Farragut, Idaho, for his initial training. He writes that he is enjoying the new life very much, with lots of work and plenty of good food.

Word has been received that Stanley J. Milford, temporary ranger at Aztec for the past few seasons, has received a commission as a Second Lieutenant in the Army Air Corps. He has been trying hard for the last six months to get into the swim and do his part and we wish him the best of luck.

A new stock of two-fold leaflets on Aztec Ruins was received during the month so that now we again have literature for our visitors. Fifty copies of this leaflet were mailed to headquarters and 500 copies were sent to the Director.

The Custodian made an inspection trip of interesting and extensive ruins in Montezuma Canyon near Monticello, Utah, to check on reported vandalism. On this trip a visit was also made to Arches National Monument, and Hovenweep and

ıcca House National Monuments were inspected on the return trip. This inspec-
ion covered the period from April 11 to 14, and report on findings has been
ade to the Superintendent.

Weather. The maximum temperature of 84 degrees occurred on April 22 and
3, and on April 12 we had a minimum of 22 degrees. A total of .19 inches of
recipitation fell on April 9 in the form of snow, hail and rain. Traces of
recipitation also occurred on April 6 and 10. We had 18 clear days, 8 partly
loudy and 5 cloudy days. The fruit trees are all in bloom and it looks like
umper crops if a late frost does not strike.

Use of Monument Facilities. Our travel for the month fell slightly below
ıe last year's level, with 350 people in 109 cars as against 371 people in 101
ars last year. The travel by states was as follows: Arizona 4, Arkansas 2,
alifornia 17, Colorado 110, Georgia 1, Illinois 8, Kansas 10, Louisiana 3,
innesota 2, Missouri 5, Nevada 3, New Jersey 2, New Mexico 141, Oklahoma 9,
regon 1, Texas 6, Utah 7, West Virginia 2, Wyoming 14, Alaska 2, District of
olumbia 1.

We had 51 parties consisting of 205 people through both the museum and
ıe ruins. Guide time for personnel was as follows: Custodian Miller 33-3/4
ours, Ranger Mahan 42 hours.

A total of 156 guide tickets were sold and collections amounted to $44.74,
ıich included one annual permit. Twelve complimentary permits were issued
nd 8 members of the armed forces were admitted free. Twenty-eight children
ere admitted, of which 5 were charged the 3¢ tax. Twenty cars containing 70
eople visited the area but did not take advantage of the regular service.

National Park Service Visitors. Custodian McNeil of Chaco Canyon returned
rom annual leave on March 24 and picked up his dump truck which we had been
sing to haul materials for stabilization work. He returned on April 15 to
ıve his pickup repaired, and borrowed the Aztec pickup for a trip to Farmington
o see the ODT, returning during the p. m. His truck was repaired on the morning
f the sixteenth and he returned to Chaco.

Custodian Baxter from El Morro paid us a personal visit on April 23, while
e was in Aztec on leave.

Paul Balch, Regional Soil Conservationist, called us on the telephone during
ıe month. He was going through Aztec on his way to Mesa Verde National Park.

Maintenance and New Construction. The stabilization work on Kiva J has been
arried on all month and to date the work is about three-fourths complete. Our
ıe and only Navajo worker became homesick on April 3 and departed for the reser-
ation without notifying us. On April 8 the Custodian made a trip to the reser-
ation to find him and to try to get another worker as well. Was unable to hire
nother man, so hired the wife of our homesick worker, so that now we may be able
o keep him on the job. The better half mixes all the mud and keeps her man in
ock, etc., and she seems to be learning the art of wall repair and capping.
t is well worth anyone's time to watch the procedure of hauling a load of mud
r rocks to the kiva. She hooks on to the front of the wheelbarrow with a steel
ook to pull with, he taking the handles, and then he hollers at her like he was
riving a team of horses.

The water line project struck a snag and little was accomplished during the
onth with the exception of backfilling of 700 feet of trench in which 2-inch
ine was laid. The 2-inch fittings for the balance of the line were shipped from
olidge on November 2, 1942, but have never been received so that we cannot make
ıe installation. We are also in need of additional 2-inch pipe to complete the
ine to the pump.

Work was started on assembling of the settee for our museum. We received
ıe lumber for this some time ago from the Arches CCC camp. Work is being done

at the Aztec High School, after hours, where proper tools are available. It is planned to assemble the settee there and bring it out to the monument where we can do the carving in our spare time. A set of carving tools has been loaned to us and we hope to have this job completed during this month.

On April 7 a short circuit developed on the power line to the water pump and it was necessary to excavate the underground line to find it. The New Mexico Public Service Company made the necessary repairs and we were not seriously hampered by shortage of water.

All irrigation ditches in the area were cleaned on April 22 and water was turned into them to water the lawn and trees. We have had very little moisture and everything needed water badly.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 178; travel year to date, 1479.

The weather has warmed up a great deal this month as compared with the month of March. Precipitation was somewhat greater, but is still comparatively low and not sufficient to allay the fire hazard conditions a great deal. Roads are getting rougher and rougher. The State has, however, begun working the five miles from Highway #285 to the Otowi Bridge, which helps some. The Army has discontinued work on the stretch from the Otowi Bridge to the Los Alamos junction and the heavy travel to the Zia Project has made it almost impassable.

The month of April has been a busy one, with several major projects occupying our time. At long last we have AC current for at least part of the area; the ladders to the Ceremonial Cave were completely replaced with new and stronger ones. The latter part of the month was spent in preparation for the Regional Fire Training School to be held at Bandelier May 3 to 5. The Army is occupying the Zia Project and the contractor is moving out his equipment. Both the Forest Service telephone line and the Mountain States toll line across the Otowi Section were completed and put into operation. The Custodian spent several days with the clearing crews, supervising the clearing and the disposal of slash from both projects.

Our power plant completely failed on the eleventh. We had been postponing the installation of the AC plant because of shortage of funds, but failure of the small plant left us entirely without power. We called an electrician from Santa Fe for what we thought was going to be a simple matter of connection of the new plant and alteration of the switch panel and installation of new motors on some of our equipment. What promised to be a simple job turned out to be a major undertaking. When the underground power system was installed, there was no use for three cables. The electricians blandly tied the third wire to the second and covered up the mess. We had to spend four days and nights digging out the underground system, locating the junction boxes, and prying out the asphalt, making the correct connections, etc. We have a great deal of useful data for the Physical Plant Index so the next fellow who has trouble will at least know the location of the junction boxes and will not have to dig up all of the landscape trying to find them. We now have power almost comparable to a city system. It is only necessary to turn on a light in any part of the area and the Kohler starts. It surely is fine, but we still do not have AC motors enough to run our power equipment.

New ladders were constructed and placed in position at the Ceremonial Cave. We made the ladders so heavy we had to rig up a hoist and swing them up the cliff and into place with the aid of the tractor. They ought to last for some time now and allay the constant fears of visitors that "the ladders don't look strong enough to be safe".

Numerous minor maintenance projects were accomplished. A leaky water line the museum patio was repaired and the wall replastered. The 20,000-gallon orage tank was drained and scrubbed and rinsed with chlorine solution. The ail from the Ceremonial Cave to the campground and all the ruins trails were eaned and repaired. Tool racks were constructed and storage facilities built the fire tool cache. All fire tools were conditioned and placed in the boxes preparation for the fire season. The weather danger station was set up and aced in operation. Daily readings are being taken. The campground was thorghly cleaned and leaves raked from around all fireplaces. The weeds and leaves re cleaned away from all buildings in the hotel and residence area. Several aky roofs were repaired. The horses were rounded up from winter pasture and t into the corral where they will be handy for use in case of fires. Pack and ddle gear were repaired.

The latter part of the month was spent in preparation for the Regional Fire hool to be held at Bandelier early in May. The school will be run as a model mp and last three days. A minimum of forty men from the various parks and numents in the region will be housed in tents in the campground. General chanic Valencia and the Custodian will cook. Menus have been worked out, tion points obtained from the local board and supply lists placed with local rchants for the food. We borrowed tents, cots and mattresses from the Forest rvice. A large hotel range has been set up and the menu calls for fried icken, roast turkey and ice cream. We were going to feed stew all the time, t the Superintendent and the Regional Forester want to come and they raised ch a fuss that nothing but turkey and fried chicken will be served on this re. Of course, if we get the impression around that we always feed so well our fires, we ought to be able to get plenty of help in the future even in e face of the manpower shortage.

One hundred seventy-eight visitors in 50 cars came to Bandelier during the nth. So far, our figures show that we are 232 visitors ahead of the count of st year to date. Visitors were cared for in 26 trips through the ruins and 13 seum lectures.

Time spent in interpretive contacts: Custodian 22 hours, Ranger Hendron 23½ urs.

Chief Clerk Soule and relatives visited the monument on the seventeenth. gional Forester Carlson spent the twenty-fifth with us, planning for the Fire hool. Other Park Service visitors were Balch, Steen and Edhlund from Region ree. These gentlemen very kindly spent a day at the monument helping us to ect tents for the coming fire school.

Our first seasonal ranger will enter on duty May 1. Mrs. Jim Eden will ld down the post this year. "The Ranger is a Dame", to quote from the Saturday ening Post. We hope to enter our fire guards on duty about the first of the nth.

Projects for the Ensuing Month. During May we will probably be able to keep sy. The first part of the month will be occupied in holding the Fire School d breaking camp, returning borrowed property, etc. We also plan to get our il and Moisture project organized and under way. The fire protection program ll be organized and rangers, guards and lookout will be trained and fitted into e organization. Grounds cleanup, weed killing, patrolling for illegal grazing, ghting fires, and caring for visitors will probably keep us busy.

NYON DE CHELLY, by Ted C. Sowers, Acting Custodian.

Visitors this month, 19; travel year to date, 187.

Weather. The lowest temperature for this month was 24 degrees on the twelfth and the highest temperature recorded was 84 degrees on the twenty-third and twenty-fourth. We have had 15 days of strong winds and also a little moisture amounting to .48 inch of recorded precipitation. Spring was truly beautiful when viewing the peach blossoms at White House, but now we understand the peach crop is lost this year due to frost. The roads continue rough and de Chelly Wash is still running strong.

Visitors. Enjoyed the company of 15 bona fide visitors this month. A woman from California rode in on the mail truck and hired a horse to make the trip up del Muerto. One man from Delta, California, tried to obtain Indians for labor on his ranch. Mr. and Mrs. George Grant from New York obtained a ride from Indian Service in order to reach the monument. They made a tour to White House. Mr. Grant is one of the many roving editors for Readers Digest magazine. Five members of the armed forces visited de Chelly, coming in from Texas. Three people reached the monument from Salt Lake City by the northern route, returning by the same. One written request was received from California and promptly answered. The remaining visitors were local.

Guide and Contact Service. Total contact hours: 13 hours 40 minutes. Ruin, 10-1/2 hours; headquarters, 3 hours and ten minutes.

Administration and Maintenance. Hauled dirt for roof of hogan and completed it with the exception of door, shelves and skylight. Am waiting for a good rain to settle everything before applying emulsified asphalt.

Worked on multiplex and prepared explanation and captions for photographs and drawings. These were sent to headquarters for review.

Painted weather station, and shovels, picks, rakes, etc. in tool room, fenders, running boards on USDI 1258, and also running boards on USDI 1227. Mounted the new tire and tube on USDI 1227. Greased and changed oil on USDI 1258, and also cleaned and regapped spark plugs on same.

Did minor road repair work. Also did a little trail work by removing as many loose rocks as was possible on trips to White House.

After receiving instructions from the former custodian as to cleaning pipe and sewer lines, proceeded to do same. With the aid of handmade appliances and the garden hose, effected the removal of obstacles in the laundry tub drain.

Repacked all archaeological material for storage in hogan when shelves are built. Sent some material to headquarters for examination and study.

Photographed and reported on construction of hogan for headquarters.

Also made trip to White House to observe the cable and rail tetrahedron line and the post-rock wire revetment constructed there for protection of the ruins by the Soil and Moisture Survey. Photographed this project and reported the condition.

Contacted Mr. Garcia in regard to his Annual Report for his Trading Post.

Spent considerable time working on Cozy's Diesel light plant, so that we might have lights.

Cleaned tool room and garage in preparation for "bug-killing".

Projects for the Ensuing Month. Finish destroying various bugs around headquarters. Building door, shelves and skylight in hogan. Correcting the situation which causes an excessive amount of bottled gas to be used by ice box and hot water heater. For additional information on multiplex display on Geology will take photographs of the various formations in the canyons. And of course taking care of visitors and office work. Also waiting for Regional Director Tillotson who is expected within a few days, for monument inspection.

APULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 300; travel year to date, 3,500.

I estimate three hundred visitors to this monument during April, bringing otal visitors to 3,500 from October 1 to date. Many soldiers visit the old olcano with their wives. This constitutes the principal part of our travel as my and Navy men move to and from their camps, and naturally their wives follow hem as long as they can and still stay in the USA.

Had a very pleasant visit from the Forest Service officials the other day: r. Ancona, Mr. Martinez of the Carson Forest, and another gentleman (I am sorry can't remember his name). He also was from the Carson Forest, all fine chaps. hope they enjoyed our monument; they said they did.

Roads on the monument have been kept in fair condition throughout the entire onth. Some rolling cinders and ash have been falling in the road all the time, ut I have kept right after it, and over the bank it goes. Roads outside the onument grounds have been in fair condition all winter.

Weather has been very warm and nice all through the month, with .54 of an ch precipitation. This is insufficient, but welcome. Spring flowers are begin ng to show up all over the mountainside. The early birds are the anemones, hen the bunch daisies. These grow in a small, compact bunch, without stems, ght on the ground, usually about five to the ball, and have the appearance of e ball cacti but have no thorns. Then the Bluebonnet and later the Bluebell. hen come myriads of other kinds, honeysuckle, flaming Pentstemon, and hundreds others.

The procupines appear to be pretty well under control, and I believe there re only one or two on the monument. Plenty of deer and occasionally a bull elk rays over the monument fence, but does not stay. Two half-grown owls are look- ng mighty wise from a cliff by the side of the road. They are pure white with g yellow eyes.

This custodian has had notice of the Fire Fighters Training School at ndelier and will be there, May 3, 4 and 5.

ASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 815; this month last year, 1111; travel year to date, 487.

Weather. This month at Casa Grande has been the hottest and driest April or several years. There were 18 days when the temperature went to 90 or above; e highest temperature was 106, the lowest, 42. April in 1942 had only six ys above 90 and a low temperature of 37. There was no rainfall recorded for e period, while last year we had 1.25 inches.

Boundary Changes. A move has been made by Pinal County landowners to open a road on the west boundary of the monument between sections 16 and 17. A ad here would necessitate moving the present boundary fence back 33 feet from e section line, or 29 feet from its present location. Investigation is being de to find out if a right-of-way was established before the area was set aside.

Maintenance. Much has been accomplished during the month. The repainting the dado and doors in the museum, kalsomining the plaster patches, and small epair jobs in the quarters were completed. Two hundred forty-two signs for her areas were lettered and given a final coat of varnish. The sewer line was iven a thorough cleaning and a great many saltbush roots removed; it shouldn't ve us any more trouble for some time. The meters were inspected on March 30. e CCC area was cleaned and surplus lumber stored; Celotex saved from the dis- ntled buildings was stored for cooler insulation.

A shortage of gasoline was noted, and part of three days was spent in digging out the tank and looking for a leak; the hole will not be filled until a good check has been made.

The tires transferred from Region Three Headquarters were installed on USDI 1260, and the ones removed were stored in the warehouse and declared surplus. The tires held for USDI 1221 (Arches) were installed on that unit and the best tires from USDI 2731 and 1233 were installed on 2731.

Naturalist Natt Dodge was in from Santa Fe on the twenty-seventh with the Saguaro pickup and engine and tools from Bandelier which were unloaded on the morning of the twenty-ninth.

Foreman Jordan came down on the twenty-fifth and picked up the cattle guard welded for Tuzigoot Soil and Moisture job. He returned on the evening of the twenty-ninth when we loaded the cement and posts and he left for Tuzigoot early the next day.

A cleanup was made of the carpenter shop. On the twenty-second stoves were removed from quarters and stored, and some straightening up was done in the warehouse.

The Custodian made a trip to Tonto on April 15 to help Doc Gipe "wet nurse" a "dam" pickup.

Ranger Brewer has been busy with guiding and office routine; posting of requisitions and transfers for the Headquarters Pool is current; storehouse cards have been made for incoming transfers; filing of correspondence is current; a beginning has been made on a reorganization of some of the office files.

Mechanic Stonehocker returned to duty on April 19.

Museum Activities. A museum display on scorpions has been almost completed, and at Charlie Steen's suggestion a new map showing the prehistoric canals and settlements in this vicinity was made to replace the present map. Artist on both projects--Ranger Guillet, who is also making a chart explaining the methods of tree-ring and pottery dating. Ranger Brewer has been able to make a little progress in the reorganization of the museum catalog.

Public Health. After receiving a red report on our water from the Arizona State Laboratory, our well was chlorinated. A sample taken soon afterwards still tested unsafe for human consumption; the use of the drinking fountains has been discontinued and all water used by the personnel for drinking is being boiled until the cause of pollution has been found and remedied.

Visitor War Reactions. A general desire to make the most of the opportunity of visiting a national monument so near a main highway is evident; we have had several visitors who said they had passed Casa Grande many times in the past and always intended stopping on their next trip--with present travel restrictions, they are "doing it now" instead of putting it off. A large percentage of the visitors haven't a great deal of time to spend because they are trying to get to Tucson or Phoenix early enough in the day to get accommodations in those crowded towns.

We continue to get a large number of men from the armed forces--and for the first time had some members of the WAAC, two girls on their way to a new station at Tucson; they were very enthusiastic about southern Arizona until they viewed the snake case in the museum, when they left with the avowed intention of getting transferred to the comparative safety of the North African front.

Use of Monument Facilities by the Public. There were 108 trips to the ruin, totaling 3992 minutes; 67 separate tours of the museum were made, totaling 1229 minutes. The average time per party was 36.03 minutes at the ruin, and 18.34 minutes at the museum. Four hundred ninety-four visitors to the ruin, 142 picnickers, and 179 unattended, make a total of 815 visitors for the month. Ticket sales numbered 298. Included in the visitor count are 85 members of the armed forces in uniform.

On April 3 Dr. Emil W. Haury and Dr. H. T. Getty of the University of izona, on a field trip with members of their anthropology classes, spent over vo hours in the museum and Compounds A and B. Earlier in the day Ranger Brewer ccompanied the field trip to the site of Snaketown.

A. E. Sankey of the Bureau of the Budget visited us on April 5 and looked round the museum but was too pressed for time to take the ruins trip.

General. Approximately 10,000 two-fold leaflets on Casa Grande National onument, revised edition, were received during the month.

Our four-quart fire extinguisher from the oil house was sent in to the uffalo Fire Appliance Corporation for repair.

Nature Notes. The owlets which hatched last month have developed rapidly nd all three are now learning to fly--recently they have ventured to the esquite trees west of the ruin. One was found in the north room on the nine-eenth and was banded amid much bill clacking and scratching.

The ocotillos have been in bloom most of the month; one of the hedgehog actus plants in front of the museum bloomed ten days earlier than any previous ecord; the staghorn cholla and prickly pear are now in bloom.

HACO CANYON, by Irving W. McNeil, Jr., Custodian.

Visitors this month, 10; travel year to date, 122.

The Custodian spent a total of six and one-half hours with 10 visitors, who ormed four very interested parties and who came in four automobiles to see the ins. Three of the cars were from the state of New Mexico and one from Utah. ll parties were on other business and just stopped by to see the ruins en route. here may be fewer parties at this monument, but they make up for it in their nterest. Too, once they are here, they can stay as long as they like without urning up gasoline, which makes for more leisurely trips and a better informed isitor to spread the advertising. All visitors want all the literature they an get. All signs leading to Chaco are being repainted, systematically, so hat the wily visitor may be the more easily ensnared, and better luck in visitor ount is hoped for next month.

Spring has come to the Chaco, and after the greyness of winter, the bright reen of the Canyon is a rejuvenating sight. The warmest day this month and this ear was April 23, when the thermometer climbed to 85 degrees. The coldest was degrees on April 11 and 12.

The coming of spring brings in the green, but takes out the trapper. He ame into this vicinity and set his first traps on New Year's Day, and as this written, he is leaving the canyon. He caught 127 coyotes, 23 bobcats and 18 orcupines. Also, he caught 28 badgers, but turned them loose. According to m, there are 85 trappers in the state and he led the list for three months ith the most animals caught. It is hoped by the Custodian that the remaining imals, especially coyotes, will rapidly increase, for he believes that the isitors enjoy seeing wild animals; and, personally, he misses hearing the yotes howl at night.

The big job accomplished this month was the moving of the generator and tor (that cute little thing which weighs about 1500 pounds) from near the fice to back of the garage. Next winter it will not be necessary to walk a rlong in the cold breeze just before going to bed in order to shut off the ght plant.

The shingles were stained on two of the smaller buildings. The gas pump, e wood part of the garage, two buildings, and most of the outside of the sidence were painted--then the paint ran out!

One of the most beneficial accomplishments of the month was the attendance by this Custodian at the Forest Service Fire Training School at McGaffey. A large amount of information was given out, and as much as possible assimilated. The best part of all was that the whole crew went out and fought an imaginary fire. At that place and time many wrinkles were ironed out.

Routine horseback patrols were made, as were other routine duties such as grading roads, servicing tractor, general spring cleanup, filling out questionnaires, as well as writing and reading letters to and from men in the Service for the Navajos, and the like.

All this Custodian has to say to the editor of the Personnel column last month for his slanderous insinuations about the bear hide is "Nyyah". Arrangements had been made with a thoroughly reliable source to get the hide before this custodian "sounded off". Come down next summer, and he'll show it to you! As a matter of fact, arrangements have been made with two different sources to get the hides, all at no cost to NPS.

CHIRICAHUA, by Frank Fish, Custodian.

Visitors this month, 296; travel year to date, 1659.

Horseback trips remain popular as a means of seeing the attractions of Chiricahua. A different reaction from a party living within 70 miles of the monument was received this month. The lady informed me upon entering, that her husband had told her that if she drove here we would take her gasoline coupons away. Everything became more genial when I informed the lady it was not my business to question her concerning the use of her car. I could easily sense that if I was to act in an officious manner on the subject it was going to be over her dead body. Since there is a regulation pertaining to the leaving of dead stock on National Park Service areas, and the possibility that I might be the main object of removal, I was quite pleased that the ration boards have not requested such action from us.

Graduation of certain members of the armed forces who were giving this area quite a play, caused a drop in attendance, but with the arrival of replacements, business should show an increase this next month.

Maintenance consisted of roads, trails, buildings, and one week of telephone trouble-shooting. The latter consisted of hiking over some rough country, unearthing underground boxes, brushing out places, stretching wires and the use of variable cuss words all picked up during the past fifteen years of working for Uncle. As the years add up, it is found the cussing becomes easier, the other work harder.

Protection. The Forest Service had a 500-acre fire south of us, and the continued dry condition of the region forces us to plan the starting of the fire program about the first of May, that being the time our money becomes available or allowable. We have been fixing the lookout up a little, changing the light, fixing the ground wires, sanding the floor, and other corrections the Brass Hats have been after us to do for a year or more. If they don't forget what they told us, and think up something new, we should pass the grade on their next visit.

Wildlife. Collecting of an occasional plant is being carried on as we encounter them, providing they are new to our herbarium. Sight Observation diary is being kept of the animals, also tracks. A neighbor informs me of the poisoning of two wolves accomplished by Government hunters near the monument. One was given credit for the killing of several calves. "Wolves aren't allowed any ration points."

L MORRO, by George W. Baxter, Custodian.

Visitors this month, 23; travel year to date, 125.

General. The month of April has brought enough visitors to make us realize hat this is still a national monument.

Weather has been changeable, with several attempts at snowstorms. Maximum emperature, 75° on April 22. Minimum, 11° on April 11. Total moisture, .48 nch.

This Custodian attended FFFS fire school at McGaffey on April 17-18. Repre-entatives of the Grazing Service, Indian Service, and Forest Service were pres-nt. We had good eats, a good time, and learned a lot about controlling fires.

Called at express office in Gallup to get package of two-fold leaflets of l Morro.

Use of Monument Facilities by the Public. Twenty-three visitors arrived, epresenting the following states: California 4, Texas 2, New Mexico 17. Total uide time, 8 hours. Personnel engaged in guide service: Custodian, 6 hours; CWP, 1 hour; Obie J. Worthen, 1 hour.

War Reactions. Our visitors this month seem to have plenty of time and want o see all there is to see. One party from Albuquerque stated that they walked o work and shopping so they could save all their gas for pleasure trips on undays.

NPS Visitors. Assistant Superintendent Maxwell and Associate Engineer amilton were here on April 13. They were looking over the water reservoir and aking plans for construction of a new dam.

Regional Soil Conservationist Balch and Foreman Stephen Jordan arrived on pril 15 to outline plans for the arroyo control project that will get under way h e first of next month.

Maintenance, Improvements and New Construction. Finished the cleaning of he water pool. Sure looks good to see all the dirt cleaned off of the solid ock bottom of the reservoir. We built a small dam out of concrete and stone, cross the center of the pool, to catch water for use in building the large dam. n cleaning out the pool we found indications that the Indians might also have ad a dam there many years ago.

Spent some time copying names found around the walls of the inside of the eservoir.

Took the burner off the refrigerator and took it to the Electrolux dealer n Gallup. Found out it was the wrong type of burner to be using with propane as. I purchased a new burner and installed it and checked the gas pressure nd we now have the refrigerator in operation again. It operates much more fficiently and no longer sounds like a blow torch. I'm sure it will use less as.

Hauled several wheelbarrow loads of dirt out of the patio. A good many ore will have to be removed before it is low enough to plant grass. We won't ttempt to plant grass until we have a water supply again.

Projects for Ensuing Month are attend fire school at Bandelier, paint and nstall road signs, refinish entrance sign, get arroyo control project under ay, start construction of dam at water reservoir, and organize fire fighting quad.

RAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 2; travel year to date, 204.

Continuing and Routine Projects. Continuing until post-May 7, at which time it is hoped that this custodian will re-reside at this area and take up where he left off some time ago. Several days this month were spent in hauling water to Gran Quivira National Monument, as cisterns are bone dry. The caretaker cleaned the largest cistern during this month. Equipment was serviced and brought up to date. Most of this period spent on "special assignment" at headquarters.

Continuing Projects. Get around to investigating the early water system at this area, maintain approach and monument signs, general cleanup around the place.

HOVENWEEP and YUCCA HOUSE, by T. C. Miller, in Charge.

Hovenweep: Visitors this month, 17; travel year to date, 35.

Yucca House: Visitors this month, 12; travel year to date, 51.

An inspection of these areas was made on April 13 and 14. Both areas were in good condition, thanks to the new fence which now isolates all groups. There was evidence that a single sheep had gotten through the fence in the Cajon area but no grazing in evidence in any of the other groups.

MONTEZUMA CASTLE, by Homer Hastings, Custodian.

Visitors this month, 248; travel year to date, 1,406.

General. The weather has been hot and dry, with a maximum temperature of 95° on April 23. A minimum temperature of 32° was registered on April 8 and 10. Mean maximum was 81.25°; mean minimum, 40.19°. There were 22 clear days and four partly cloudy days. Total precipitation was .11 inch.

Administration. Reports and correspondence were kept current. Board of Survey Reports were checked and returned for final approval.

Two pictures were taken of the willows planted last month under the Soil and Moisture planting project. The exact spot from which these pictures were taken was tagged and it is planned that other pictures will be taken from the same spot to indicate the success of the project.

The Area Commander for FFFS was contacted and instructions were received on recruiting volunteer fire fighters.

The Forest Service is conducting a fire fighters school in Clarkdale and the Custodian and his wife are enrolled.

Ranger Reed relieved Custodian Cotter on April 6, 7, and 21.

Norman Jackson was here on April 22 to inspect the Castle Store.

The Acting Custodian received notice of his appointment as Custodian, effective April 16.

Former Custodian Jackson's household goods were loaded on a truck returning to Santa Fe.

We finished photographing museum artifacts except for a few "re-takes" that will be necessary. The exposures have all been developed and three prints made from each one. The project had to be suspended when the supply of print file cards was exhausted, but now that a new supply has been received, it is hoped that it can be brought to an early conclusion. Ninety-eight sets were completed this month, bringing the total of sets complete to 398.

Maintenance, Improvements, and New Construction. Major project for the month was the reopening of a second story doorway into the Castle. The original

ndian doorway was walled up years ago by pioneers who were attempting to re-
nforce that section of the building. Since 1939 a proposal has been under con-
ideration to reopen this second story door to facilitate visitor use of the
uilding. The old wall had to be supported and braced and the masonry fill re-
oved. New columns were constructed on either side of the doorway with the
tones laid in cement mortar covered by a veneer of mud mortar. By working with
xtreme care the project was completed with no apparent damage to the building.
t is now possible to conduct visitors directly into the second story of the
astle instead of going into it from the third story and then doubling back.
his eliminates considerable visitor traffic in the building and with the return
f normal travel, it will be possible to conduct more visitors through in less
ime.

Vines around the museum were trimmed and dead weeds were removed.

The garage doors and the Castle ladders were given a coat of linseed oil
nd floors in part of the office and museum have been oiled.

The electric refrigerator in Residence No. 1 failed and the trouble was
raced to the thermostat control which was removed and repaired.

Tires were inspected on USDI 1252, as required by ODT.

Activities of Other Agencies. Regional Soil Conservationist Balch and
oreman Jordan were here to inspect the willow planting of last month. Every
utting examined was showing signs of life, with some in the more favorable lo-
ations showing six or eight inches of growth and a few blooms appearing.

Accessions. A Leica camera and supply of Kodachrome film were received for
he use of Ranger Reed as he travels from one monument to another in the capacity
f Relief Ranger.

Guide Service. Total contact hours, 62.25; Hastings, 28.50; Reed, 33.75.
ains trips, 40 for 143 visitors; museum parties, 48 for 198 visitors; informa-
ion service for 41 visitors.

Use of Monument Facilities by the Public. Total cars, 69; Arizona cars,
0; total states represented, 20, and the District of Columbia. Total visitors,
48. Total number of tickets sold, 97; total revenue received, $27.49; members
f the armed forces admitted free, 15; children admitted free, 31; of whom 11
ere taxed.

Protection. All carved wooden signs have been cleaned and given a coat of
inseed oil.

Septic tanks for the restrooms and administration building were checked and
ere found to be in good condition with no pumping necessary.

Projects for Ensuing Month. Remove abandoned electric cable. Paint all
xterior woodwork at museum. Complete project to photograph museum artifacts.
atrol boundary fence. Refinish floors in both residences.

Visitor Reaction. No reactions of significance have been noted, but perhaps
comment on guide reaction would be in order. With the opening of the second
tory doorway, our routine in guiding parties has been greatly altered and a
omplete revision of our "story" has been necessary. We are wondering if a
sychologist would find us fit subjects to be substituted for a rat in a maze
ith observations made on how long it takes a park ranger to make new adjustments

AVAJO, by Bill Wilson, Acting Custodian.

Visitors this month, 4; travel year to date, 20.

Visitors. Four visitors, and 1 car; travel year to date, 20 visitors
9 cars. This month last year: 7 visitors in 3 cars; last year to date, 43
isitors in 19 cars. Two people were guided to Keet Seel. Four were taken

around Sandal Trail. Counting Indian Service and Park Service, the grand total for the year is 26 visitors in 11 cars.

Weather. On the whole it has been very mild. However, there were only 14 clear days. There was less than a half inch of moisture in the form of sleet and snow on April 9, 10 and 11. Low: 21° on the tenth; highest: 75° on the nineteenth. A few early spring flowers have appeared and the first robins are with us.

Maintenance, New Construction, Miscellaneous. The corral was completed. Inspection trips were made to Keet Seel and Betatakin. Everything all right in both places. We started for Inscription House on the new road but found it too hard on the car, both rocky and sandy, so turned back. The usual maintenance inside and out, and office work kept up to date.

Roads. The approach road is in good shape. The new road to Inscription House is in poor condition, so will not attempt to visit the ruins by that route again. Some holes in the road to Segi Point were filled in and rocks removed, but the road is none too good. There are places which should be surfaced with clay or gravel.

Projects. The main project for this month will be painting the living room, the woodwork on the outside of the residence, and the pit toilets. I plan to get a pack mule and make the trip to Inscription House horseback.

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 5,958; travel year to date, 28,245.

Weather. Rain, none. PERIOD. Heat, plenty. PERIOD.

Travel. Records show an increase of 19 per cent over last month's travel through the monument and, although I am unable to find an excuse for this increase, I want it known that I am not using the FISH system. The 1,050 head of cattle are not included in the travel count. The number of visitors in the armed forces, as estimated by the Immigration office, was two hundred.

Wildlife. An interesting trip was made on April 18 to the head of Alamo Canyon, returning down the north ridge. On the return a parachute would have been very helpful. The purpose of the trip was to check the time of departure or migration of the sheep from this country into the Pinacate Mountains in Mexico. Good water was found in five tinajas (rock tanks) and fresh sign of five sheep was seen at the two upper tanks. A large mule deer doe was surprised to see us as we topped out on the north ridge. She ran only about fifty yards and then picked her way slowly and carefully along the ridge. Gordon Brown, who accompanied me, came to the conclusion that when any country became so rough that the deer had to slow down to a walk it was time for man to stop trying to see what is on the other side of the ridge.

The first white-wing dove for this season was seen at one of the water holes. The whole trip was very interesting and full of surprises, such as huge juniper and oak trees, yucca and even beargrass. The sheep have not left the country yet, and another check will be made in May.

Interpretive Contacts. Two talks were given during the month, one to the Ajo Women's Club on the flora of the monument--40 slides were shown--and one to Boy Scout Troop 43 of Ajo, 25 members present, on the wildlife of the monument.

Administration. Trespassing problems are increasing. Evidence of wood cutting along the main road was found in two places and a case of poaching at Dripping Springs was uncovered, but too late to gather much evidence. I plan to increase my patrols in the Dripping Springs area and, with the cooperation of the Border Patrol and Customs Patrol, I am going to make a load of wood very expensive for one wood hauler.

Roads. The County spent another five days on the monument road, blading ne windrows of loose gravel from the center of the road to the side. This was one as a safety measure, for without any moisture, all the gravel is kicked nto the three neat windrows and if it becomes necessary to cross these to nother track your car attempts the impossible ski turn combination of a tele-ark and jump-turn. We are now quite optimistic about road oil and hope that ur maintenance problem will be solved soon.

New Construction. The heading of this paragraph is misleading, for in wo more months this construction will have been going for almost a year. How-ver, the structure does look something like a house now and with plenty of aterial on hand, the framing has been completed and the sheathing of the roof ill be complete with two more days of sweating this finished lumber into place.

Projects for the Coming Month. Work with Mr. Philip Welles of the Arizona tate Game Department, on bighorn sheep studies; will take care of all patrols, nd any spare time will be spent on the temporary dwelling.

AGUARO, by John Peavy, Acting Custodian.

Visitors this month, 474; travel year to date, 3060.

Weather. We have had no rain this month and the weather has been very warm. he saguaros are in bud and starting to bloom. The prickly pear and staghorn nolla are blooming and the hedgehog cacti have finished blooming in the lower levations. The palo verdes, mesquite, and catclaw are in full bloom.

Travel. There have been 474 visitors this month, who arrived in 150 cars, f which 57 were instate, 79 outstate, and 14 Army vehicles. Three horseback arties consisting of 11 people visited the monument during the month. Men in niform, 46.

Guide time: John Peavy, 15 hours, 20 minutes; Marge Peavy, 3 hours, 30 inutes.

Maintenance.

1. The loop road was dragged twice during the month. At present it is in air condition.

2. The telephone line between Tucson and the X-9 Ranch, a distance of 23 iles, was completely gone over. Brackets were tightened, broken insulators eplaced and poles braced where needed. About 10 poles should be replaced in ne future. The U.S.F.S. aided in this project by lending assistance for two ays.

3. At present my two-man trail crew are brushing out mesquite and are emoving the larger rocks from the Taylor Trail to the "Grass Shack".

Improvements.

1. I built a drinking fountain at headquarters.

2. The interior of the horse trailer was lined with galvanized iron to revent scuffing and breakage of the sides.

Law Enforcement. I trailed two men 12 miles on horseback yesterday and prehended them at Manning Camp well equipped with fire arms, but no licenses r my permission to be there. Their case will be heard in Tucson tomorrow.

Manning Camp. The mountain is very dry and the fire hazard is steadily ncreasing. The lookout has not been placed yet, due to the scarcity of man-ower and labor problems. I will probably install the lookout this week as oon as the remaining 12 miles of telephone line have been maintained. This ill be a four-day job for two men at the least.

Fireguard Training School. Regional Forester Carlson arrived on April 18 nd prospective lookout and patrolman were given two days of training in the actus area.

Publicity. A Grantland Rice Sportreel was taken in the cactus area the first part of the month.

Projects for Ensuing Month.

1. Install lookout, patrolman, and maintain telephone line.
2. Finish trail work.
3. Pack supplies and more hay to Manning Camp.
4. Try to make the Fire School at Bandelier.
5. Try to improve radio reception and transmission.

Noted Changes in Visitors' Reactions Due to War time. - No changes noted.

SUNSET CRATER, by P. F. Van Cleave, Acting Custodian.

Visitors this month, 210; travel year to date, 1373.

I have made only one trip to Sunset this month, that trip being for the purpose of obtaining the visitor registration; hence I have very little in the way of a report to offer.

The road has been cleared of the fallen tree recorded in the last report, and the general condition of the road from the highway is pretty good. The grounds are staying quite a bit cleaner than formerly. I spent about half an hour picking up rubbish from around the parking area.

TONTO, by E. C. Gipe, Custodian.

Visitors this month, 324; travel year to date, 1879.

Visitors this month included 22 from the armed forces. Fourteen states and Canada were represented, Arizona leading with 67 cars. A total of 97 cars entered the monument. Sixty-seven lower ruins trips, with 219 people; one upper ruins trip with 3 people. Fifty-four museum trips with 251 people. Forty-three people were contacted at the parking area.

Personnel time: Custodian Gipe, 85.25 hours.

Visitor Reaction. Not much change. Those who are leaving the country regret they cannot stay until all the cacti are in bloom.

Weather. Showers on the seventh, and mountains covered with snow; heavy wind and light showers on the eighth; rained all night the ninth. First half of month cold and windy, the last half hot and windy.

General. Tonto Ford refused to run, so was out of transportation for fifteen days except for my own car. Did everything I ever heard you should do to a Ford, including cussing, but got no results. Called Custodian Bicknell and he came to my rescue, stuck his head under the hood, whispered something to Henery and darn me if it didn't start. Ran into Globe under its own power, had it worked over and returned it to Tonto. It had another fainting spell, so had to take it back to Globe for another injection of B_1. It is now doing fairly well. I still think it misses Al. Thanks a lot, Al, for getting me out of the mess.

Maintenance. Dug four test holes for septic tank drainage. Put new sill in museum doorway, also made screen to keep out the snakes, as it took two people, two brooms and a good stout saguaro rib, to say nothing of the time, to get a Racer out of there.

Revamped the museum on April 22.

Have given the museum roof a final coat of dressing.

Have built twelve more standards for fire signs and have them painted, ready to place.

Wildlife. Two does are living on the monument at present and they drain a ub of water at the cabin site nearly every night.

Tourists have reported seeing quite a number of javelina along the entrance oad, also two were seen in the wash in front of the tent early one morning.

A Gila monster on the trail gave a great thrill to a party of visitors ecently.

Projects for the Ensuing Month. I have the remaining fire signs to put up nd much dry grass to remove from the immediate vicinity of the tent and museum. ll spare time will be spent on the temporary cabin.

UMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 505; travel year to date, 3302.

General. Visitor travel continued to hold up fairly well during the month. owever, the last of the seasonal winter visitors seem to have left for their astern homes. The travel will come mostly on weekends from now on.

No rain fell during the month and the area of northern Sonora and southern rizona is in such a dry state that cattlemen have not known such a drought ince 1900. Cattle and deer on the ranges in Mexico are dying from lack of water nd feed. Fire season in the Forest Service areas has started much earlier this ear than usual.

Visitors. A total of 505 visitors were recorded for the area in comparison ith 715 for the same month last year. Of this number, 420 were conducted hrough the mission ruins and the museum. Total contact time for the month was 4 hours, 10 minutes. Of this total, Caywood spent 28 hours, 25 minutes; Mattison 4 hours, 45 minutes.

Library SWNM. Considerable time was spent by Ranger Mattison in trying to omplete the headquarters library filing system. This project will continue uring the following month. A shortage of 3x5 cards brought the project to a lose. As soon as cards are received the work will continue.

Personnel. Both the ranger and custodian took annual leave during the onth. Ranger Mattison spent his time off in the General Land Office in hoenix, Arizona relative to the Spanish and Mexican grants in southern Arizona. onsiderable valuable records were located.

Custodian Caywood took a trip into northern Mexico. Going in at Agua rieta, opposite Douglas, Arizona, he visited the old town of Fronteras where uan Bautista de Anza was born. From there a circle was made of Arispe and owns in the Sonora River valley to the Hermosillo-Nogales highway, returning y way of Nogales. Several days were spent at Arispe, studying the old church ecords and making a brief archeological survey of that part of the Sonora alley.

Repairs. The boundary wall at the southeast corner of the monument is in anger of settling due to irrigation water going under it through gopher holes hen the adjacent field is being irrigated. The section in danger is next to he old adobe pit where the soil has sloughed away from the foundation of the all. Steps will be taken this month to remedy the danger.

The roof of the custodian's residence was partially patched during the onth. A 30-pound felt was tarred on to the existing tar-paper roof over about ne-third of the area. Two drains were removed, repaired and lowered one inch o take better care of the drainage from the low pitch roof.

Continuing Projects. Work will continue on the headquarters library catagogue and the roof repairs on the custodian's residence. An attempt will be ade to build a pier under the present boundary wall or in some way remove the esent danger of settling. Regular maintenance will be carried out daily.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 301; travel year to date, 2105.

Travel. The spring increase in travel somehow manifested itself this month over last, despite undiminished restrictions.

Trends. Notable are increases in repeat visitors, mostly local, and in visitors in U. S. uniforms. Jeeps, peeps and other rigs are familiar sights in the parking area. Cadets from the primary training school at Clemenceau frequently walk over, more frequently fly over, the monument. From the air, they seem bent on inspecting every room. Hope they drop in only if on foot.

Guide and Contact Service. Museum, 23 hours; field, 24 hours.

Personnel Time. Acting Custodian, 45 hours, 40 minutes; Relief Ranger Harry Reed, 1 hour, 20 minutes.

Projects. Completed: the fencing job, begun March 15, was terminated April 14. The job was supervised by Foreman Stephen Jordan, who was joined by Paul Balch from headquarters, April 11, in working out final details on the cattle guard. Jordan and Balch left April 13, and the final cleanup was completed by the Acting Custodian and two workmen the following day.

Continuing. The project of demolition of the reconstructed portions of Unit IV at the ruins was given sharp impetus this month by provision of funds sufficient to complete the work. A total of six boys have been working Saturdays and whenever possible, and to date five hammer handles have been broken on the job. Progress! However, with that much pounding something had to give, and the 2½-foot solid masonry and concrete walls above the original adobe and rubble foundations are down to the last four or five feet, with the second story and all roofs now removed. Effort is now being made to begin the formidable job of cleaning up and clearing away the debris as it accumulates from the demolition. Much material has been used to stabilize the walkway to the ruin as it passes Unit IV. The bank here below the path was too steep, and much erosion was in progress. The walk is now thoroughly safeguarded, and the rubble fill is being masked with a top coating of clay dirt. Old timbers are being saved for kindling at Montezuma Castle. Willows infested with powderpost beetle are being burned.

WALNUT CANYON, by Paul L. Beaubien, Acting Custodian.

Visitors this month, 345; travel year to date, 2064.

General. We've had a little snow, but spring seems to be about a week earlier this year than usual. The acting custodian spent about one man-day hoeing weeds from the parking area and trails, which attests changing conditions.

Visitors. Of the 345 visitors, an even 50 were not contacted, and it is estimated that 210 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien, 42.

Activities. With ten days sick leave, I don't have a lot to report. I finished carving and enameling "PREHISTORIC CLIFF DWELLINGS" on both faces of the entrance sign. Completed and installed a good sized sign for the entrance road, necessitated by the removing of several old California Auto Club signs. Located and repaired one break in telephone line. Did some general cleanup around area and wish I had done a lot more now that I've heard the Regional Director might inspect the area.

Changes and Reactions of the Public, Etc. Sixty-three per cent of the visitors arrived on Sundays this month. It seems that I could meet more than half my visitors by being at the Observation Point only one day a week. I

stimate that more than 30 planes fly over every day. If I could count the assengers as visitors, I would have the biggest travel year on record.

Projects for Ensuing Month. Will have to repeat what I wrote last month. eyond regular chores, I'll work on telephone line.

HITE SANDS, by Johnwill Faris, Custodian.

Visitors this month, 2,632; travel year to date, 16,050.

April without Play Day hardly seems right, but in spite of war and weather e had 2632 visitors in 591 cars. Of this number, 1,236 were from the armed orces.

Only one major trip was made during the month and that to Magdalena to re-urn a power unit loaned to us by the Grazing Service.

No word has been received on our new ranger and the three of us have been uite active. Joe took a week off to be with his two boys home on a furlough, ne from the Navy and one from the Army.

Too, this travel month records the death of our first custodian, Tom Charles n passing, he has left behind a monument to his vision, and his efforts in real-zing that vision.

Heavy winds have made several days quite miserable, and of late we feel the pproach of summer. Our high of the month was 91° on April 4, and a low of 26° n the thirteenth.

Much of the custodian's time has been spent in the office and on the check-ng station. Several conferences on an informal nature were held with the Forest ervice, Grazing Service, and U. S. Army officials.

No inspections, other than regular routine, were made on the monument. On ne of my town trips the County Assessor was contacted regarding private lands ithin our area. No new data of any consequence were revealed. A couple of maps ere secured from our central office on which we plan to spot plane crashes, etc. ithin or adjacent to our area, the other we plan to use as a land status map and how details not now on other maps. Anyway, Chuck, we have big plans but just hen we can put them all in effect is another question. Many of them will cer-ainly require a time element.

The White Sands National Monument received another wave of publicity in he untimely death of Tom Charles. Nearly every paper in this section, and many thers as well, carried articles on his work at the Sands. Several merited ditorials were written. So Tom, even in death, drew attention to the Great hite Sands. Several movements are under way which I wish to talk over with you t our first opportunity. Nothing alarming, and many will remain dormant for he duration but need to be discussed. Little can be added to what has already een said of Tom except that all of us feel we were especially privileged to have orked with him. He was a swell boss, a grand coworker, and a wonderful park perator. The probability that Mrs. Charles will continue the concession gives s assurance that his plans and dreams for the unit will be faithfully and care-ully carried out.

The heavy winds have given us considerable worry as to the condition of our oads, especially after losing our carryall, but so far we are OK. A wagon craper from Zion National Park is en route and should aid us materially.

Some time has been spent on our warehouse and tools. After the inventories e decided to do a lot of work in the warehouse and Paul and Joe have it looking etter all the time.

Joe and Mrs. Shepperd were quite thrilled when the entire family got to-ether again for a few days. Buster was home from the Navy out of Seattle, and

J. C. home from M. P. duties in the Army. One, and maybe two, of Joe's boys plan on joining the Navy in the near future, so Joe may have three in the Navy and one in the Army before long.

Our visitor total seems small compared to April a year ago, but take out our Play Day and Easter services and our loss is not so great. As usual, our travel is showing a late hour use and we will no doubt be forced to split our shifts to service this latter group. We are spread out so thin now it seems a shame to try to carry additional hours but we may have to.

Drough is increasing our fire danger, of course, but as you know, no great fire problem exists at White Sands.

Our water truck tank showed a couple of faults during the month but we are hoping they are only minor. It might be wise to have an extra tank stored at White Sands if one is available. Our present tank may develop major faults at any time.

Army use continues to increase in spite of the loss of larger convoys. The fact that the Alamogordo Army Air Base, as well as Fort Bliss, change men quite often gives us a good source of supply.

Public sentiment seems to be, work harder and play harder, and our area furnishes the play outlet. There seems to be no doubt but that the war program forces many to drive in only a few miles instead of the loop of seventeen miles. We try to impress any visitor that the entire drive is far better, although we never insist on any point.

Next month a new ranger, I hope, some repairs to buildings, much road work and a lot of visitors; how near we guess I will tell you next month.

WUPATKI, by P. F. Van Cleave, Acting Custodian.

Visitors this month, 74; travel year to date, 315.

The activities of the writer have been directed largely toward becoming familiarized with a portion of the administrative details here at Wupatki. The first two weeks of the month were spent under the tutelage of D. J. Jones, during which time we made a monument inspection with particular reference to the roads and trails of the area. While on inspection at Crack-in-Rock Ruin we found an inscription on the rock which seems to be the date 1617 A. D.; whether or not this has been previously reported is not known by either Jones or the writer. Perhaps a little research upon the subject may bring confirmation.

Weather. The month has been characterized by partly cloudy weather, althoug there has been little actual precipitation. Recently it has gotten warm enough to bring our noxious creatures out of hibernation. To date, two small scorpions have been caught in the residence and several reports of rattlesnake activity have come up from the Black Falls Trading Post on the Little Colorado about seven miles north of here. Lowest temperature for the month was 29 degrees on the nights of the tenth and eleventh; high of 88 degrees, came on the twenty-third.

Roads. Repairs consisting largely of filling erosion cuts have been made upon the road from the highway, particularly near Doney Crater, and on the parking area and service roads near the residence. One truck load of clay was hauled for this work.

Highway Marker. The Highway Department has agreed to install a culvert and widen the shoulder of the highway at the entrance gate so that a standard marker installation can be made.

Fire Protection. The availability of our Navajos for use in the coming fire season is as yet questionable. Most of the Navajo families are now living on the other side of the river in rather inaccessible locations.

Visitors. Visitor use has been highly erratic as well as generally slight. aximum use is now definitely on Sundays, with six out of the past seven parties oming on Sunday. A large proportion of the out-of-state license plates seen ere are of people doing temporary work at the munitions dump near Flagstaff.

Water Supply and Sanitation. Heiser Spring stopped flowing because of a reak in the pipe line, but Clyde Peshlacai (with a little aid from me) now has t functioning again at normal capacity. The sewer line from the kitchen sink s still a problem, though when and if Paul manages to get the auger that has een so long ordered, further work may avail some improvement.

Proposed Projects. The road from the highway is still far from being in irst class shape. I hope to be able to fill in most of the erosion cuts before e have any hard rains. There are a good many spots in need of a lot of labor oward removing sharp and bumpy rock outcrops.

If enough of the Navajos return from Bellement I plan to organize a fire rew among them before the season gets under way. Emmett Kellam, the trader at lack Falls, has assured me full cooperation along that line, both in acting as nterpreter and taking active part in the program.

UPPLEMENT

The following information of interest to the field was extracted from the uperintendent's April Narrative Report for the Director.

General. April was an unusually busy month in the office and every effort as made to keep work current. Superintendent Richey assisted in dispatching e duties of the Region Three Office. Special attention was paid to efficiency atings for all SWNM personnel, and assistance given with arrangements for the egion Three fire training school to be held at Bandelier May 3-5. Tentative rrangements were also made for the selection of fire guards and seasonal person- l for our various areas.

We were delighted this month to have former Director Horace Albright visit s on April 30. Mr. Albright had not changed since we last saw him and was full enthusiasm and interest for the national parks and monuments, and all of our ctivities.

On the evening of April 2, the Region Three Office gave a farewell party the American Legion Hut for departing CCC employees and those who are entering ritical defense construction plants. The keynote of the party was rationing as was impossible to get food served for the large group. Employees brought box ppers which were auctioned to the highest bidder. Guests were provided with special" ration books which entitled them to special refreshments. The party as a huge success.

pecial Activities

April was an extremely busy month. In addition to the regular duties of uperintendent, Mr. Richey served as Acting Regional Director April 12-28, in- usive, during Regional Director Tillotson's absence from the Region Three Offic n an inspection trip in Service areas in northern Arizona, Utah and New Mexico.

Two inspections were made at Bandelier National Monument: on April 23 with upervisor Andrews of the Santa Fe National Forest, in connection with the re- ocation of telephone line which serves Bandelier National Monument and the nta Fe National Forest; on April 30 with Assistant Chief of Forestry Cook, orester Walker of the Director's Office, and Regional Forester Carlson. At this me an inspection of the blowdown damage on the south mesa and in Frijoles nyon was made with Mr. Cook and Custodian Thomas.

Conferences were held with Army officials on the allotment of space to them in the Region Three Office building (7 rooms), and definite arrangements worked out for their use of this space. Col. Clark, in charge of state induction for WAAC and aviation pilot cadets, started moving their furniture to the building April 13. Conferences were held with Mrs. Frey, Operator, Frijoles Canyon Lodge, Bandelier National Monument, and Army officials in connec- with the possible assignment of the lodge for exclusive Army use for the duration. Although no definite decision has been reached, negotiations are progressing satisfactorily.

Superintendent Richey attended the regular meeting of the Federal Business Association meeting April 2, at which time representatives of the various Government agencies gave special attention to the efficiency rating system for employees.

Decrease in Travel. The travel trend continues to reflect the general national decrease. Bandelier and Organ Pipe Cactus National Monuments are the only two which do not show a decrease. The former has a moderate increase, of 19 per cent, while the latter has an extremely large increase.

Personnel.

Appointments

William W. Wilson, Acting Custodian, Navajo National Monument, effective April 1, 1943.

Jesse G. Marble, Grader Operator, Chiricahua National Monument, effective April 16, 1943.

Philip F. Van Cleave, Acting Custodian, Wupatki National Monument, effective April 12, 1943.

Transfers and Changes in Status

Earl Jackson, Custodian, Montezuma Castle National Monument, intra-transfer and change in status to position of Senior Clerk, Southwestern National Monuments, effective April 1, 1943.

Homer F. Hastings, Ranger, Montezuma Castle National Monument, change in status to position of Custodian, Montezuma Castle National Monument, effective April 16, 1943.

Furlough for Military Duty

David J. Jones, Jr., Custodian, Wupatki National Monument, left on April 11 for active duty with the Army.

Last month we quoted the first examination of Johnwill Faris' training ourse given at White Sands in December. The second group of questions is given elow; the third will follow in next month's report.

econd Examination

. Give not to exceed a two hundred fifty word brief, on Service history. Choose your words carefully, two hundred and fifty words go fast.) What park as the distinction of being the first created? Who was Secretary of the nterior when the Park Service was created? In what year did the National Park ervice go through its greatest expansion? Who was Secretary of the Interior t that time?

. Give six acts and one executive order constituting the main Service legisla- ion, with the year of their enactment. What one act means more to our South- estern National Monuments probably than any other one? List the past and pres- nt Director of the National Park Service. Who is our Associate Director?

. How many park policies are listed in our Administrative Manual? Give six ou deem most important and briefly state why. How many park objectives are isted in our manual? Give five and, as above, state why.

. Give the functional units of the Chicago Office. Can you name the chiefs f all our Chicago technical divisions?

. Why is it necessary that parks contain large areas and the monuments in many ases are small areas? Define a national park. A national monument. What is he difference between the two?

. What is meant by the classification of areas? Name the classifications in he National Park Service. Into what two groups are the Southwestern National onuments divided for travel statistics and technical supervision?

. Eight divisions of our interpretative policy in the National Park Service re listed in the Administrative Manual, ch. III, sec. II, p. IV; can you name our? Twelve interpretative functions are listed in the same chapter and section an you name four?

. What, in the broad sense, is meant by the term, "wildlife" in National Park ervice use? What is meant by a "wilderness area"? Who is responsible for this ield in a park or monument? What animal is harvested as a crop in some park reas? What is a "buffer" area, and why is it important in our national parks?

. What is meant by Public Works Reserve? What notable accomplishments were ncluded in the CCC program in the National Park Service? Name at least four anuals and one handbook urgently needed in any area for efficient administration nd for your use in White Sands files? Why does the National Park Service have oncessions, or park operations? Name two elements for consideration in review- ng concession applications and for concession expansion.

0. What are Annual Estimates? Trace the steps from start to finish. What s meant by General Schedule of Supplies? Surplus property lists? Allotment edger? Change in Outline? Force Account? Reserve Funds? C.R.O.? Store- ouse Card? Trace the steps in the preparation of a purchase order, including he distribution of copies.

RSONNEL NOTES

Jimmie Brewer has been heard from, in Camp Peary, Williamsburg, Virginia. had a couple of days in the hospital following a too-realistic gas mask drill which the mask was not as effective as the tear gas. Jimmy reports that the aining is really tough, but that he expects to get used to it soon and be on s way overseas in the not too far distant future.

Another former ranger from whom we have not heard before is Bob Upton (White nds) who is now Lieutenant (j.g.), USNR. Bob is at BOQ Section Base, Little eek, Virginia. Like other fellows, he reports a "pouring on" of training, but real enjoyment for the work after becoming acclimated. Bob took preliminary aining in South Boston beginning February 1 and lasting eight weeks. He is now signed to a ship on inshore patrol duty.

Bill Supernaugh claims to have had experience in the toughest outfits in the my, having been in Reconnaissance and now in Ordnance, Amphibian Command, at mp Edwards in Massachusetts.

Receipt of "Personnel Notes" by Francis Elmore (Ensign) now at San Diego imulated a long and somewhat homesick-sounding letter which everyone at Headarters enjoyed very much. Francis has been assigned to a former private yacht ich is being converted for Navy use. Francis concludes, "There is no need to ll you how much I miss the Southwest, and you know that that is where I will ad just as soon as this mess is over."

Recent events in Tunisia indicate that Ray Ringenbach knew what he was talkg about when he wrote to Faris (dated March 6), "Events here in North Africa e decidedly favorable, and we all feel that it shouldn't take much longer." y is in an Ordnance Aviation base unit and probably supervised the handling of lot of the bombs that dealt such punishing blows to the Afrika Corps.

Paul Ezell (Walnut and Tonto) is in the Border Patrol and when last heard om was trying to get into the Navy.

Captain Quintin Bradley, USMC, was hospitalized from the South Pacific eater and is now in Oakland, California. He was home on furlough in Santa Fe r 30 days, returning to Oakland on April 16. Quint. was in command of a native rine Corps unit on Samoa for several months. His anthropological training, gether with his knowledge of the Navajo Indians acquired at Canyon de Chelly, de him particularly well fitted for working with the natives, who thought the rld of "Cap'n Bradley".

Corky Jones is now Assistant Curator of the Museum of Northern Arizona. We pe that more details regarding Corky's work will be available for the next issue "Personnel Notes".

Lieutenant Stanley Milford (seasonal Aztec Ruins) is now at Miami, Florida, here he is an instructor at a training base. Incidentally, Cal Miller's son, t, is undergoing naval training at Camp Farragut in Idaho.

There must have been great doings at the Sands last month when Joe Shepperd's ys came home for a visit. Joe and Mrs. Shepperd have big stakes in the armed rces, and we are proud of them. Read Johnwill's report for the details.

Greetings this month to Judy Eden, back at Bandelier now as Seasonal Ranger. now have two lady rangers in the outfit, both of them well known to Southwestn Monuments personnel.

Lois Beaubien was recently taken by the sheriff to the State Hospital (for e insane, we assume). However, he brought her back home again as she simply nt along to help with the third member of the party, who was committed to that stitution. My, how these social service workers get around!

A card from Davey Jones reports him on the way to AFC Signal Corps Training nter at Atlantic City, New Jersey.

Arizona State Museum Library

McNeil's comeback, in his report, to the remark in last month's Personnel Notes indicates that Mac. is on the job over there at Chaco, and can't be caught napping. At the recent fire training school, Mac earned the title of "Hot Spot McNeil", more details regarding the earning of which will be given whenever Mac. snaps back at the editor of this column again.

The fire school (Bandelier May 3-5), afforded many opportunities for picking up Personnel Notes. In Art's report, written before the school, he mentioned that "fired chicken" was to be served. We weren't sure whether this was a typographical error or a threat. However, the chicken was unexcelled, Natt Dodge becoming so enthusiastic over it that he forgot to conceal the large pile of picked bones that accumulated in front of his plate. In consequence he paid a large fine assessed by "Judge" Lassiter at the conclusion of the meal.

Fines were paid also by Jackson and Mahan because of peculiar headgear. Mahan blossomed out in a fancy straw hat while Earl wore a down-east corduroy helmet with earflaps. Apparently the boys differed in their opinion as to weather conditions at Bandelier in May.

Considerable commotion was caused in camp in the effort to determine whose pajamas were the most brilliant, McNeil's or Toulouse's. The contest ended in a draw, and the boys were honored by having theirs used as the camp flag on alternate days.

Chuck Richey attended several sessions of the fire school, spending one night at camp. The following morning the Boulder Dam short-wave radio set turned up missing, and Chuck was suspected. However, it was found later in a closet, covered with the Bandelier bear skin, so suspicion shifted to McNeil. Chuck also holds the honor of having paid the heaviest fines. The "Judge" was second.

Chuck also made an inspection of the Bandelier blowdown area, hiking 16 miles, part of which was through a welter of down timber. Art Thomas returned from the hike convinced that Chuck was a lot better man than he had thought. You can't ever tell about these superintendents until you get them out in the woods.

Toughest-looking fire fighter was Ross Maxwell. Slouch hat, khaki trousers, and three days growth of beard, convert Ross into a backwoods character of sinister appearance. They even fined him for not eating his supper allotment of Army K rations.

Have you read John Peavy's report this month? There is an interesting story back of John's single sentence about trailing two men to Manning Camp. One of the men had so much admiration for John's abilities as a police officer that he told John that he'd like to work for him. As a result, John has a fireguard signed up for the summer, which is quite an accomplishment in this day of manpower shortages.

Sallie Brewer has sent in a number of Personnel Notes, which follow. These are what will make the continuation of this column possible, and if the transformation of the "Grapevine" is to be a success, it will be necessary that other HCWP's do likewise.

Joe and Helen Golden and daughter came out to observe the comparative calm of the ex-Headquarters offices on April 14; Joe is now chief clerk at the Consolidated Aircraft plant in Tucson.

Philip Welles stopped in during the month and told us he had seen Ensign Addison Pinkley in Tucson the first part of March. Addison left Jean in Tucson for a visit with her family and was on his way to advanced training in submarine operation.

Don Watson, formerly Naturalist at Mesa Verde, now with the Engineer Corps, U.S.A., is stationed near Yuma, Arizona.

We hear that Bill Wilson feels really at home at Navajo now that he has moved his horse over from Rainbow Lodge.

Bina Bicknell is chairman of the Stamp Committee of "Women at War" in polidge; this committee, composed of members of the Cosmos Bridge Club, has o date made between 300 and 400 war saving stamp corsages; they have designed pecial corsages for Christmas, Valentine's Day, St. Patrick's Day, and Easter see Vogue and Life) and find that the corsages are sold almost before they are ompleted. The usual corsage contains nine 10¢ stamps and sells for a dollar; pecial orders are filled with 25¢ stamps.

Gene Stonehocker returned to duty on April 19, looking a bit pale but very ell, after his sojourn in the hospital.

Mrs. Anna M. Guillet, Ranger Meredith's mother, spent three weeks of April ith Meredith and Emma and Danny--on her way from Mancos, Colorado, to a family eunion in Yuma. Mrs. Guillet was favorably impressed with Casa Grande spring eather and southern Arizona in general.

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Corky Jones writes, "Davey still likes the Army, but so far he has just een riding around on trains. He was quite delighted to have some time in hicago en route during which he visited the Park Service offices, and seems to ave talked with almost everyone except Hugh who was out seeing Bill Stevenson ff on his way to Virginia." Corky adds, "My job with the Museum of Northern rizona is grand--I'm flatteringly titled 'Assistant Curator'--and the work is ust the sort of thing I would have loved to do at Wupatki if I had known how. think it will make me a better HCWP!"

APRIL 1943 - TRAVEL RECORDS

Station	April 1943	1943 Travel Yr. To Date	April 1942	1942 Travel Yr. To Date
Arches (No Report)	0	333	276	929
Capulin Mountain	300	3500	300	8500
Chiricahua	296	1659	493	3082
Natural Bridges (No Report)	0*	47	0*	15*
Organ Pipe Cactus	5958	28245	175*	4335
Rainbow Bridge (No Report)	0*	0*	0*	0*
Saguaro	474	3128	1105	8348
Sunset Crater (snowbound)	210	1373	416*	1928*
White Sands	2632	16050	6671	21840
Total Biol-Geol.	9870	54335	9436	48977
Aztec Ruins	350	1838	371	2121
Bandelier	178	1479	205	1247
Canyon de Chelly	19	187	111	581
Casa Grande	815	5487	1111	9870
Chaco Canyon	10	122	63	175
El Morro	23	125	0*	199*
Gila Cliff Dwellings (No Report)	0*	10	5*	15*
Gran Quivira	2	204	106	734
Hovenweep	17	35	0*	30*
Montezuma Castle	248	1406	534	3357
Navajo	4	20	7	43
Tonto	324	1879	638	3918
Tumacacori	505	3302	715	4492
Tuzigoot	301	2105	620	3309
Walnut Canyon	345	2216	620	3095
Wupatki	74	354	118	846
Yucca House	41	51	0*	20*
Total Hist. & Arch.	3256	20870	5274	34052
GRAND TOTAL FOR APRIL	13126	75205	14710	83029
Last Month	11766	62079	7555	68319

*Estimated Travel.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

June 17, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

May narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the greater part of the month in the office on Headquarters and Regional Naturalist's routine activities. He attended the fire fighters' training school at Bandelier National Monument May 3-5, and was on annual leave May 26-29.

Naturalist Steen attended the fire fighters' training school, and from May 10 to 14 inspected ruins stabilization work at Aztec Ruins National Monument and made a survey of ruins stabilization needs at Chaco Canyon, Hovenweep and Bandelier National Monuments. He completed the report covering artifacts recovered during ruins stabilization work in Mummy Cave at Canyon de Chelly National Monument, and also completed the report of recent ruins stabilization activities at Casa Grande National Monument. The balance of the month was spent in the Headquarters office overhauling the photographic files and carrying on other routine activities.

Public Relations - Publicity. A feature article "Wonderland of Rocks" by Joyce Rockwood Muench, on Chiricahua National Monument, appeared in the April issue of the California Monthly. Naturalist Dodge was inducted as a member of the Santa Fe Kiwanis Club.

Extension Services. Southwestern National Monuments' natural color motion picture reels were shown to 2000 pupils of the Miami, Arizona, public schools; and to 7500 Japanese inmates at two relocation centers at Rivers, Arizona. The reels were sent on to White Sands National Monument where they will be shown at Army camps and air bases in the vicinity during the summer. Two illustrated talks on local reptiles were given in Santa Fe, one to 19 Girl Scouts and one to 28 members of the Santa Fe Kiwanis Club.

New or Unusual Activities. In addition to attending the fire fighters' training school, members of the interpretive staff took over the duty of checking travel-report figures (Form 10-157) submitted by monument custodians at the end of each month.

Progress of Exhibits, Plans, and Museum Projects. Continued assistance was provided the acting custodian of Canyon de Chelly National Monument in his effort to complete the displays for the multiplex units.

Southwestern National Monuments Loan Library. No accessioning or cataloging of publications was accomplished. In addition to six volumes (1937-1942) of the Audobon Magazine (formerly Bird Lore) donated by Mrs. Earl

Jackson, 69 publications were received. These consisted of 7 books, 9 reports, 19 pamphlets and 34 periodicals.

Southwestern Monuments Association. All bookkeeping, financial and management details were kept current. The book project, "Arizona's National Monuments", marked time as the printer was swamped with other work.

Status of Archeological Projects. Ruins stabilization work continued at Aztec Ruins National Monument. A survey to determine urgent ruins stabilization needs was made at Chaco Canyon, Hovenweep and Bandelier National Monuments. Completed reports were submitted covering ruins stabilization activities at Canyon de Chelly and Casa Grande National Monuments.

Photography - Visual Aids. Several insect and flower photographs were made for monuments' and headquarters' slide libraries and photo files. Overhauling of the headquarters photograph file was continued, new negatives and prints were filed, and duplicate prints for monument files coordinated with the headquarters files.

Office Visitors. Ranger J. W. Hendron of Bandelier National Monument and former Senior Foreman Archeologist Gordon Vivian of the Mobile Unit, Chaco Canyon National Monument, had official business with the interpretive staff.

Reaction of Visitors to the Interpretive Program as Influenced by War-Time Conditions. In general, previously noted trends continued. Many visitors reported that they had walked to work and while shopping in order to save gasoline to visit a national monument in which they were especially interested. Soldiers promised that "after the war" they will return and bring their families to see and learn about monument features.

The Montezuma Castle custodian writes, "The tourist who rushed across the continent and back during his month's vacation has been eliminated. Our present day visitors take time to read all the labels in the museum exhibits and, with questions and an evident desire to see everything, make the trip through the ruins last at least a full hour."

One custodian reports a decided shift to local people visiting the monument by transportation "other than motor vehicle".

Technical Aid to Administrators. The project of taking photographs of staff members of both the Southwestern National Monuments and the Region Three Office for the personnel file was completed. Fish and Wildlife officials and public health authorities were notified regarding the great number of rabbit carcasses found in the vicinity of Gran Quivira National Monument.

Miscellaneous - Overhead - Routine. Sixty-one letters were written during the report period. Requests for information were answered as usual. Duplicate prints of the Montezuma Castle study collection specimen photographs were incorporated in the headquarters photograph files.

Regional Naturalist Activities. Several routine assignments made by the Regional Director were followed through. The prospectus covering plans for a proposed public-use building for Carlsbad Caverns National Park was reviewed. A synopsis covering interpretive activities in Region Three was prepared for the Regional Director's annual report. Clarification of rules and regulations covering the taking of motion pictures in national parks and national monuments was obtained and circulated to the field. The interpretive staff took over the filing and distribution of informational leaflets for the Region Three Office, a duty previously handled by the Recreation and Land Planning Division.

Projects Planned for Next Month. It is anticipated that the long-delayed field trip to White Sands National Monument and Carlsbad Caverns National Park will be made. A project to review thoroughly interpretive

master plans for all Southwestern Monuments is scheduled. If the printer making reprints to be used in the Southwestern Monuments Association's book, "Arizona's National Monuments" is in a position to complete the printing, the project of publishing the book should advance toward completion. Three illustrated talks on the National Monuments of the Southwest are scheduled at the request of local organizations. Consideration will be given proposed studies of wildlife at Bandelier National Monument to set up a priority for such studies.

Copies will be made of a number of old and valuable photographic prints. Further studies of the prospectus covering the proposed public-use building at Carlsbad Caverns National Park will be made and comments prepared.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors for the month, 92; travel year to date, 478.

Your official visit to the area was certainly helpful and very much appreciated this month and I certainly hope you can find the time to make these trips to this monument more often. There are so many things that come up from time to time that your advice and help right here on the ground would be more help than advice by letter. Some of our trespassing problems are much different than can be expressed on paper. Or maybe I should say, there are a few words that come to mind that would look out of place in a monthly report, but if you were in my shoes at the time, I believe the same words would pop into your mind, even though you may be gentleman enough not to express them.

Weather continues to be dry and windy, even though we had a pretty bad short shower which washed my road in many places, and completely out near the storage shed, with my truck on the other side. Several small cuts were made across the road to the Windows section by this same shower, but they have been repaired with hand tools. A blade over that road, just after one of these showers, would help more than three months of work with a spade and rake.

One pretty good water hole was located on the monument, near the Windows Section. This solves a problem that I have been thinking about for quite a while. White Sands can have my water tank, any time they want it.

Horseback and pickup patrols have been carried on throughout the month with some results in keeping out trespassing stock. The sheep are moving to the mountains for the summer, which will be quite a relief for a few months. Twenty signs were received from the warehouse at Casa Grande and will be put up as time permits. Maybe this will give me some aid this coming fall and winter. About one-half mile of fence in the canyon below the custodian's residence would certainly give lots of protection from stock being driven along the stock driveway which follows the monument boundary for about three and a half miles.

Mr. Albright and party were monument visitors this month. I was very sorry they could not spend more time, but they promised they would come back and let me really give them a trip. T. C. Miller also was a monument visitor this month and made the trip into Delicate Arch with me. Cal stammers a bit now before he starts bragging about Aztec. That old arch that has withstood many a wind took another beating when Cal climbed that hill and stopped before the arch. I have another surprise for Cal, his next trip in. I have been trying to open Cal's eyes for twenty-seven years, and I have twice since I have been at Arches.

Clean-up work is being done at this time. There is still lots of work to be done to the storage shed, moving materials, et cetera, a building to move, gasoline tank and pump to install, and work on the yard around the residence.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 399; travel year to date, 2,287.

General. Our travel continued to show a decrease not only in the total number of visitors, but in the number of guided trips and the number of perso per trip. Freezing temperatures caused a lot of damage to the fruit and garde crops during the month. Range conditions are about normal for this season of the year in northwestern New Mexico. Roads are all open and in fair conditio not only the main highways, but the dirt roads in the back country as well.

Weather. The maximum temperature for the month was 89, on April 30. On May 17 and 19 the minimum dropped to 27 above. We had rain on six days durin the month with a total precipitation of .64 inch. We had 18 clear days, 4 partly cloudy, and 8 cloudy days for the month.

Use of Monument Facilities. Our travel for the month again shows a de crease from the same month last year. For May 1942 we had 125 cars and 544 people; for 1943 we had 105 cars and 399 people coming from the following states: Arizona 8, Arkansas 5, California 15, Colorado 76, Idaho 2, Illinois 6, Iowa 2, Kansas 2, Nebraska 9, New Mexico 234, North Carolina 4, Oklahoma 4, Texas 11, Utah 10, Wisconsin 2, Wyoming 8, District of Columbia 1.

A total of 100 guide tickets were sold and total collections were $28.45. Thirteen complimentary tickets were issued and 12 members of the armed forces were admitted free. Ninety-three children were admitted, including organized school groups from Flora Vista and Aztec; two were charged the 3¢ tax. Twenty one cars containing 80 people visited the area but did not take advantage of the regular service.

We had 44 parties containing a total of 214 people through both the museum and the ruins. A total of 73-1/4 hours of guide service was rendered, broken down as follows: Custodian Miller, 39-1/4 hours, Ranger Mahan, 34 hour

Equipment. Receipts were signed and delivery made of the old Dodge pick to Charles Turner, who was high bidder on the truck, and the battery was delivered to A. B. Downey, as high bidder. The landscape is still marred by the old dump truck, and its immediate removal would greatly improve the monument headquarters area.

The museum settee is 75 per cent complete and will be put into service i the museum lobby at an early date.

A carton of rope and BX cable was received from Custodian Bicknell. This shipment, and some pipe fittings, left Casa Grande on November 2, 1942, and arrived at Aztec April 28, 1943, most of the shipment having been lost. That's service without a smile.

NPS Visitors: Regional Archaeologist Erik Reed and Naturalist Steen made an inspection of the stabilization work on the eleventh and twelfth and then departed with the Custodian for an inspection of Hovenweep and Yucca House.

Custodians McNeil of Chaco and Baxter of El Morro visited the area during the month. Custodian McKinney paid us a visit on the twenty-third.

Superintendent Richey paid us a visit on May 19, in the absence of the Custodian, and made a hurried inspection of the area, leaving about 5:30 that evening.

Maintenance, Improvements and New Construction. Signs, door facings and garage doors received a new coat of stain and various road signs were repaired and conditioned.

Ranger Mahan and the Custodian drove to Chaco after closing time on April 28 and brought back the dump truck to use on stabilization work. We had supper with the "BEAR-HIDE" Custodian of that area and returned to Aztec that night.

Stabilization work has been running along satisfactorily and a lot has been accomplished on the ruins. We talk stabilization and preservation to our monument visitors, which is believed to be an important phase of our work. The public should be informed about the maintenance problems of a 500-room building, after it has been excavated and laid bare, and let them know right on the ground about our continuous maintenance problems and methods of preserving these archaeological structures for this and future generations. Drainage corrections were much improved in the courtyard during the month.

Too Late to Classify. Ranger Mahan attended the regional fire school at Bandelier National Monument May 3, 4 and 5. From what we hear about the school it was time well spent, and a very important and worthy project.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 316; travel year to date, 1795.

The main show at Bandelier this month was the Region Three fire training school, May 3-5. Most of our time the latter part of April and the early part of May was spent in making preparations and cleaning up afterward. We put a Soil and Moisture crew to work rebuilding the balance of the boundary fence wrecked by the hurricane of a year ago. Superintendent Richey and Associate Forester Cook of the Chicago office inspected the worst blowdown areas. We suppressed a forest fire that threatened the monument a day after fire school was over. One seasonal ranger and a fire guard entered on duty the first of the month.

The weather has been cool and pleasant. Several rainy days brought us 1.29 inches of moisture but the deficiency for the year is still serious and the forest is generally dry and fire danger pronounced. Many windy days have contributed to drying out the moisture that did fall. Frijoles Creek is unusually low for this time of year.

The Region Three fire training school held at Bandelier from May 3-5 seemed successful. The school was conducted by Assistant Chief of Forestry Cook and Forester Walker of Chicago, and Regional Forester Carlson of Santa Fe. The school was run as much as possible as a typical fire camp. The trainees and instructors were all housed in tents in the campground. General Mechanic Valencia of Bandelier, ably assisted by KP's picked from the trainees, set up kitchen and cooked and served the men out-of-doors in camp style.

Regional Director Tillotson was present and gave the opening address. Superintendent Richey gave the address of welcome for Southwestern National Monuments. The three days were spent under the direction of Forester Walker and assistants, learning the fine points of fire suppression. The session was terminated by a party given by the Southwestern Recreation Association at the Legion Hut in Santa Fe the night of May 5.

Those in attendance at the fire school are listed below:

Charles A. Richey, Superintendent, Southwestern National Monuments
Ross A. Maxwell, Assistant Superintendent, Southwestern National Monuments
Lawrence F. Cook, Assistant Chief of Forestry
George Walker, Forester, of Chicago
S. T. Carlson, Regional Forester
George Baxter, Custodian, El Morro National Monument
Irving McNeil, Custodian, Chaco Canyon National Monument
Russell Mahan, Ranger, Aztec Ruins National Monument
Ralph Lassiter, Regional Engineer, Region Three
Charlie Steen, Assistant Naturalist, Southwestern National Monuments
John Clark, Guide, Carlsbad Caverns National Park
Jack Aiton, Custodian, Colorado National Monument
H. Nelson, Maintenance Foreman, Mesa Verde National Park
Carl Lehnert, Chief Ranger, Boulder Dam National Recreational Area
Perry Convis, District Ranger, Boulder Dam National Recreational Area
Stanley Dinsmore, Chief Ranger, Petrified Forest National Monument
Philip Van Cleave, Acting Custodian, Wupatki National Monument
John Peavy, Custodian, Saguaro National Monument
Paul M. Steel, Ranger, White Sands National Monument
"Spud" Bill, Assistant Chief Ranger, Grand Canyon National Park
Natt Dodge, Associate Naturalist, Southwestern National Monuments
Joe Toulouse, Custodian, Gran Quivira National Monument
Perry Brown, Chief Ranger, Grand Canyon National Park
Tex Worley, Ranger, Grand Canyon National Park
John Riffey, Custodian, Grand Canyon National Monument
Fred Fagergren, Chief Ranger, Bryce Canyon National Park
Don Jolley, Chief Ranger, Zion National Park
Homer Farr, Custodian, Capulin Mountain National Monument
Earl Jackson, Senior Clerk, Southwestern National Monuments
Parke Soule, Chief Clerk, Southwestern National Monuments
Miner R. Tillotson, Regional Director, Region Three
A. P. Wang, Assistant Supervisor, Santa Fe National Forest
C. A. Thomas, Custodian, Bandelier National Monument
J. W. Hendron, Ranger, Bandelier National Monument
Tony Valencia, General Mechanic, Bandelier National Monument
Pedro Gomez, Fire Guard, Bandelier National Monument
Jack Wade, Ranger, Mesa Verde National Park

Inspections. Assistant Chief of Forestry Cook, Forester Walker of the Director's Office and Regional Forester Carlson spent April 28 and 29 going over fire control and forestry problems. Mr. Cook and Superintendent Richey were shown over the worst blowdown area on April 30. Mr. Dodd, Chief Investigator of the Bureau of the Budget, Regional Director Tillotson and Superintendent Richey inspected the monument May 14. Representatives of the various parks and monuments attending the fire school were shown through the ruins and the monument.

NPS Visitors: Regional Director Tillotson and Associate Architect Bennett from Santa Fe spent the twenty-first fishing in the Rito. Regional Ecologist Ratcliff and his family visited the monument May 16.

Soil and Moisture. A special Soil and Moisture project to rebuild a portion of the west boundary fence was approved and a crew put to work May 10. Progress has been rapid and the end of the month should see the job nearly finished. Completion of this section will put our fence back into shape to turn cattle for the first time since it was badly wrecked by the storm of April 30, 1942.

Visitors. 316 visitors entered the monument in 80 cars. Interpretive service was furnished in 19 trips through the ruins.

Fishing season opened May 15 and a number of people came in to fish. Seventeen licenses were examined and a check showed a take of 141 fish. We did not get a total count, however, as some fishermen were not contacted as they left.

Forest Protection. Initial action on a four-acre fire was taken by the monument crew the day after fire school was dismissed. The fire did not burn any monument land but was in our protection zone and on land covered by our cooperative agreement with the Forest Service. All tools were reconditioned and replaced in the caches after use in the fire. One fire guard was entered on duty May 4. Four more are to report June 1.

Maintenance. Residence No. 1 was kalsomined and the kitchen painted in readiness for occupancy by Seasonal Ranger Kendall June 1. The comfort station floors at Headquarters and in the campground were painted. The 10,000-gallon storage tank was cleaned and the line chlorinator installed. A number of signs were repaired and repainted. The electrical wiring in the museum failed during the fire school and, although considerable time was spent pulling the wiring, et cetera, the trouble has not been located and the museum is without lights.

Projects for Ensuing Month. Several days will be spent training the new fire guards and seasonal rangers when they report. The fire guard crew will be put to work on projects strengthening our fire protection facilities. They will clear all trails and start the work of felling isolated snags in the worst blowdown area to reduce danger from lightning strikes.

CANYON DE CHELLY, by Ted C. Sowers, Acting Custodian.

Visitors this month, 13; travel year to date, 200.

Weather. The lowest temperature for this month was 28 degrees on the seventeenth and the highest temperature recorded was 89 degrees on the first of May. We had a week of very strong winds which carried sand from the wash into headquarters and all over. Only one very light rain was reported for the entire month and the surrounding country is very dry. Several nights of frost did some damage to the various victory gardens around Chinle, but they are expected to recover and produce.

Visitors. Enjoyed very much the visit paid us by Regional Director Tillotson, his wife, and Assistant Chief Ranger Bill of Grand Canyon. White House Ruin was viewed from the rim early in the evening, and it was a beautiful sight at that hour. We all enjoyed watching the sheep and goats climb the canyon wall from the bottom. Wished they could have stayed longer and seen more of the canyons. Ten other people also visited the monument, all from nearby places. There were no local people to report this month.

Guide and Contact Service. Total contact hours, 4 hours, 30 minutes. Ruin, 4 hours; headquarters, 30 minutes.

Administration and Maintenance. Placed door, complete with lock, on hogan and also constructed a skylight. Covered the glass with fine wire cloth to prevent breaking by hail. Plastered between the logs on both inside and outside. Am still waiting for a good rain to test for leaks.

Worked on multiplex and have completed everything with the exception of Antelope House, stratigraphy chart, cultural chart, and the geology display. Most of these plans are half completed. Placed glass on those ready for hanging.

Received 500 gallons of gasoline which was indeed welcome. Adjusted the Flamo in the ice box and stopped several small leaks in the line. This should improve the amount of gas being used. Cleaned the fuel pump, greased and changed oil on USDI 1258. Placed fire posters at the Thunderbird Ranch Tradin Post and Garcia's Trading Post where they were much admired by the Navajos.

Cozy's Diesel plant broke down several times during the month, but repair were made and it continued running until it finally did stop. Had to hook up the water pump to the gasoline engine and apply for non-highway gasoline to ru it. Got an R coupon book from the OPA board in Chambers, which contained coupons for 110 gallons to last until the end of August. The light plant is running again but, due to the load, the water pump will remain hooked to the gaso line engine.

Spent considerable time on "bug-killing" by spraying the ground outside headquarters with kerosene and achieved some results. Picked up the acid and eggs which Baxter had brought to Gallup, for fumigating the house, but was sid tracked again for want of stone or earthenware crocks in which to mix the wate and acid.

General. We were both pleasantly surprised to be asked by Mr. Freeman of the Indian Service here at Chinle, to go to Tuba City and bring back a panel j for repairs. Went by way of Kayenta and stopped in at Navajo National Monumen to see the Wilsons and Betatakin. Were given a royal welcome and went down Sandal Trail to view the ruin from the rim. It was a grand sight and mighty beautiful country too. Don't envy Bill one bit for Shonto Hill. Wished we ha more time to spend at Navajo. This trip increased our monuments to 13 - an unlucky number? Returned to Chinle by way of the Hopi Villages. Covered abou 300 miles in 16 hours, which is not bad considering the condition of the roads

Mr. Freeman also took us up Canyon del Muerto on an inspection tour of Antelope House and Standing Cow Ruins. This was the first car up the canyon for this season. Although del Muerto was rather wet, we didn't get stuck in the quicksand. We were both very much impressed with the canyons and their ever changing views.

Projects for the Ensuing Month. Completing the multiplex as much as possible. Building shelves in hogan and storing the archaeological material there.

Hope to obtain the necessary crocks in order to fumigate the residence and will continue the kerosene treatment on the outside.

We are waiting for the happy arrival of the seasonal ranger, S. Joe Thoma of Santa Fe. He and his family will certainly be welcome, but alas, what worl awaits the poor man!

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 300; travel year to date, 3,300.

Only about three hundred visitors to this monument for May, bringing the total for the year to 3800. This is only about one-fourth the visitors we had one year ago.

Weather in and around this monument has been varied to a considerable degree this month. In a general way it has been very cool, with approximately one inch of rainfall about the middle of the month. General conditions are fine in the community, cattle and sheep are doing extra well, grass is good, and farmers are really getting busy; crops are started off in fine shape, just the right amount of rain to start them well.

Roads and trails on the monument are in splendid condition. No work has been done on the trails this month but they are in good shape and the roads have been well dressed many times and culverts have been cleaned preparatory to any spring rains that might come our way. Here's hoping they do.

All vegetation got a severe setback about ten days ago. I note the oaks got their leaves frozen and many other shrubs got frozen, but they are all coming out of it in fine shape now.

The first six days of the month were pretty well taken up with the fire fighters school at Bandelier.

CASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 467; this month 1942, 1092; travel year to date, 5954.

Weather. Much cooler than usual for this time of year, with both minimum and maximum temperatures below those of the corresponding period last year. The warmest spell we had came on April 30, May 1-2, when the temperature ran 106 degrees on each day. We were lucky in having comparatively cool nights as that cuts off one month of the hot weather usually experienced; the minimum temperature was 40 degrees.

There was a trace of rainfall, merely a few drops, on May 3; everything is exceptionally dry.

Maintenance. Due to Mechanic Stonehocker's injury, the shop work and general maintenance work have been done by the custodian and Ranger Guillet. The custodian spent the first two weeks in the shop, working on automotive equipment, and Guillet, outside of 11 days spent at Saguaro, has been repainting the doors and windows of the utility area and some of the quarters. The plaster patches in various quarters were kalsomined and many small repairs made.

Ten days of the custodian's time were spent in going to Zion National Park for a Continental Wagon Scraper for White Sands National Monument; on arriving at Zion he found that the scraper was located at Bryce Canyon, which necessitated 165 miles of additional driving. It was not found feasible to load the scraper on USDI 1218, so it was towed to White Sands.

On the return trip a load of telephone poles, wire, and stubs was hauled to Saguaro. The custodian returned to Casa Grande at 11 p.m. on the twenty-first, with fire tools for Tuzigoot, Tonto and Montezuma Castle.

Guillet's time at Saguaro was spent at the fire lookout station at Manning Camp; he left Coolidge on April 29 and returned at noon May 10.

The museum storage cases have been inspected and given a good dose of paradichloride benzine. Shelves for forms have been labeled, and file boxes for publications received have been put in order.

Acting Custodian Peavy and Henry Duffield, the Saguaro fire guard, brought four wheelbarrows, a stove, and other equipment in on May 10.

On May 24 Regional Forester Carlson and Ecologist Ratcliff stopped for a few minutes to leave USDI 1217 here.

Visitors. On May 18 two Hopi Indians visited Casa Grande and left us a little more convinced that the "sun holes" were used as sun holes! The woman whose name is Sallie Kidd, had been told by her grandfather, a head man at Oraibi, that her clan came to Oraibi from the Casa Grande; he had described the compound as his elders had described it to him, so that she pointed to th northwest room (the one the Boss considered a ceremonial room because of the material found there) and said that was these people's kiva, and that they used the courtyard between it and the Casa Grande for their dances. When she was shown the holes in the east walls of the central and east rooms she said they were put there so the people would know when to have dances and plant their corn; that there were similar ones at Oraibi, but not everyone saw them just members of the clan (?) who took care of them. The rectangular plane surrounding the hole in the central room (which to some has looked suspicious like a surface fitted to the plate for a tie rod) especially interested her. She and her husband estimated the distance from the present surface out to th former wall surface and after some discussion in Hopi, told Ranger Guillet th there had been a recess around the hole "just like the ones at Oraibi" where the priest placed corn meal and "feathers" for the sun when it shone through the hole.

Use of Monument Facilities by the Public. There were 331 visitors to th ruin, in 93 groups; a total of 3307 minutes was spent in guide time. Sixty groups comprised of 181 visitors were given museum talks for a total of 1124 minutes. Ticket sales numbered 229.

There was quite a drop from last month's grand total of 815. The beginn of hot weather is undoubtedly responsible for much of the decrease.

Visitor War Reactions. Some of the decrease in travel is probably due t many tires beginning to be dangerously near the wearing-out point--people are little more "war conscious" and are saving what rubber they have left.

Military men still comprise a sizable part of our travel; 67 passes were issued to soldiers and sailors this month.

Projects for Ensuing Month. I hope to get all painting and repair work done before Guillet goes to Canyon de Chelly; and until Mechanic Stonehocker returns to duty, will probably spend most of my time in the shop.

Public Health. Mechanic Stonehocker, on the twenty-ninth, had the misfortune of getting his hand caught in the planer, cutting off the end of one finger and hurting two others; he has not yet returned to duty.

The contamination of our water supply is still one of our major problems. Samples have been taken daily at the request of the director of the Sanitary Engineering Division of the State Department of Health--but always we get back the "little red slip". All drinking water is boiled and the fountain a the museum is still turned off. Some of the visitors who complain of thirst are given a shot of aqua pura out of Sallie's private stock. Negotiations are under way for a chlorinator for the well and we hope the situation improves soon.

CHACO CANYON, by Irving McNeil, Custodian.

Visitors this month, 16; travel year to date, 138.

This custodian spent 8.3 hours with 16 very interested visitors who came in five automobiles, and made up 5 parties. Four of the cars were from the state of New Mexico, and one from Arizona. One party from Albuquerque stated that they had walked wherever they had gone for weeks to save gas just to make the trip out here, and were enthusiastic visitors, as were all. It surely is a pleasure to interpret the ruins to such people.

Summer weather may be affecting some monuments, but Chaco is almost uncomfortably cool at night, and the wind (which gives us vitamin X) blows cool every day. There was one warm day, April 30, when the mercury climbed to 90 degrees. The coldest this month was 21 degrees on May 17; and, believe it or not, there was 0.20 of an inch of rain on May 20.

The eight days taken to attend the fire training school at Bandelier National Monument surely hastened this month. The school was very much worth while, and the report will seem more "alive" after having met so many of the fellows. Incidentally, the McNeil section of the Convis-McNeil team, who had the hottest fire, learned that there is a whale of a difference between fire fighting theory and practice. A tribute to the leaders of the camp is that as they are Park Service men, they are trained in "putting it over" (giving their information to others), and every point was thoroughly explained even to the neophyte.

The day spent in the Region Three Office was educational as was the trip to the Laboratory of Anthropology under the tutelage of Archaeologist Reed.

Upon the return to Chaco, it was the plan to start the ruins stabilization work immediately but, alas, all operations ceased for one of the men had a "sing". The patient recovered, and only then did work begin. Regional Archaeologist Reed and Assistant Naturalist Steen were in on May 10 and 11, to give the "green light" to the stabilization project. Most of the work is to be done in the Great Sanctuary at Chetro Ketl, and for the past two days the men have been busy repairing the lower part of the south wall.

Custodian Cal Miller and Ranger Russell Mahan of Aztec Ruins were in on April 28, to borrow the Chaco dump truck for their ruins stabilization. It was brought back to Chaco on May 11, for Chaco's stabilization.

The Superintendent was in on the eighteenth and nineteenth of May. The custodian had spent the whole day laboring with the Navajos, and looked like one--not like a model custodian! The Superintendent went all over the place and gave the custodian new ideas and new "slants" on old ideas. His visit was interrupted, so it is hoped that he will be back again before long.

Other duties such as setting up the light plant motor, grading the roads, chopping weeds in the ruins, painting signs, and others were accomplished.

It is hoped and expected that Chaco's visitor record will at least treble next month. Wanna bet?

CHIRICAHUA, by Frank Fish, Custodian.

Visitors, 255; travel year to date, 1914.

Travel did not increase as expected. The public appears to be ready for a surge of visiting, providing the regulations regarding the use of their car are lifted a bit or if they can figure out a plausible alibi. This was demon strated yesterday when Mrs. Erickson had open house to celebrate her eighty-ninth birthday at the Faraway Ranch. A good percentage of the neighbors from the surrounding region attended.

Visitor Reactions. Nothing unusual for the month in relation to Chirica hua. It may be of interest to record a statement of a California lady--a num ber of her friends believe that after they visited Yosemite, the license of their cars were turned in to their local ration boards and when they applied for the new quota of gasoline, were sharply cut in amount. Fortunately, the recent press release from Grand Canyon had just arrived with the statement that if the traveler could adjust his gasoline allowance he was welcome to th national parks; after showing her the release I boldly claimed that was the present policy of the Service; at least I attempted to relieve the pressure a bit from Yosemite's neck as, from past experience from working there, I recog nized another jab from the "So Commercialized Clan".

Maintenance. Repainting of road signs and back sloping of the borrow pit in upper Bonita--besides the regular cleanup of the area--was carried out for the month. With the twice-daily fire danger readings taken beginning the first of May, our week day work periods have been interrupted. Another time consumer is the large quantity of official mail much of which does not pertai directly to the administration of one of these small areas, that is received. A lot of this stuff quotes "paragraph such a which, page so and so, and delet some of this"; it leaves my mind in such a shameful condition that if I had t money I would get on a nice little two week toot. I would like to see some o the active brains at the top take a couple of weeks vacation so I can get caught up on my reading.

To the Censor: I hope you have run out of black ink. Notice how one wee of association with me at a fire school results in increased figures at Organ Pipe. The Fish system appears to be potent.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 25; travel year to date, 150.

Weather. We have had plenty of wind this month and very little moisture. Maximum temperature 84, on May 3; minimum 22, on May 10; precipitation .19 inch.

General. A few visitors continue to drop in occasionally. They are either local people or people going to other jobs.

The custodian attended fire school at Bandelier on May 3-4-5. A great time was had by all. Also at this fire school, two custodians that I know o learned a lot about radio, including the fact that other people listen to their conversations.

May 6 was spent at the headquarters office, in conference and visiting.

Forest Ranger Olson from McGaffey was here on May 13, visiting the monu ment. On May 14 he and the custodian organized an FFFS squad.

Use of Monument Facilities by the Public. Twenty-five visitors arrived from the following states and departments: Arizona 3, New Mexico 10, Wyoming 3, Georgia 2, New York 2, Indian Service 3, Forest Service 1, U. S. Army 2.

Personnel engaged in guide service: George W. Baxter, 8 hours 30 minutes; Hazel Baxter, 2 hours 15 minutes; Obie Worthen 7 hours, 20 minutes.

NPS Visitors. Associate Engineer Hamilton, Associate Landscape Architect Kell, and Regional Soil Conservationist Balch paid us a surprise visit on May 18. We received their itinerary the next day. Superintendent Richey arrived on May 23, to view the dry "historic pool" and to look over the erosion control project.

Maintenance, Improvements, and New Construction. The patio has been leveled and spaded up.

The old north garage has been torn down and the lumber salvaged.

Painted a few signs, but we have had so much wind that they all have a sand finish.

The Soil and Moisture crew with Mr. Stephen Jordan, foreman, Gilbert Jones as truck driver, and eight Navajos, have been working on the gully and silt control project since May 1. They are doing a fine job of repairing the old dams in the arroyos and making mats of brush and rock for erosion control on the slopes.

Part of the pipe line to the water pool has been lowered, so that in the future we will be able to take water out of the bottom of the pool and increase our supply.

Brought back a load of acid from Santa Fe when I returned from fire school. I delivered this in Gallup for Acting Custodian Sowers of Canyon de Chelly for use in exterminating his bugs.

Projects for Ensuing Month. We hope to start running concrete on the dam. Soil and Moisture crew will finish up their work. Will paint more signs if I can find time.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 44; travel year to date, 248.
Out-of-state visitors: Arizona 5, Texas 2.

Continuing and Routine Projects. Monument maintenance was the major task undertaken upon the return of the custodian to the area. Monument signs were given their annual repainting, and approach road signs were repainted in some instances and waxed in most. Other paint jobs were the register box and picnic table. Fence inspection was undertaken and minor repairs were made. Monument cleanup was inaugurated, and storm sashes were removed from the custodian's residence-office. Several days have been devoted to retracing the aboriginal water systems on the hill-top, and corrections made on our rough diagrams. We are awaiting the mapping of this important system by the Regional Engineers. Installed electrical plug-in box for the refrigerator use, had a temporary installation which was of doubtful safety, but now OK on this. Brought in replacement pickup USDI 1411 from Boulder Dam National Recreational Area, and installed tires from USDI 1226, as well as tools, fire extinguisher and Briggs clarifier. Wax was applied to the living room-office of the custodian's residence as part of quarterly maintenance of these floors, in order to give them a good surface so that future waxings will be less frequent. Filed application for revision of the Certificate of War Necessity for USDI 1411. Rack was manufactured for our fire tools, and a couple of flat tires were fixed on the two trucks. One day was devoted to property accountability adjustment between our records and those of headquarters.

Fire School. May 2 to 5 was employed at the Bandelier fire school; quit an enjoyable time was experienced, and picked up quite a lot of useful inform tion. The morning of the sixth was spent in attendance at Region Three Offic "staff meeting"--nice view of inside workings of this office. Some time that morning was devoted to helping out in headquarters office before returning to the monument via Albuquerque.

Continuing Projects. Further investigations of the aboriginal water system, as well as mapping this important exhibit with help of Region Three engineers. The establishment of the southeastern monument corner, and the installation of a "no trespass" sign where there has been considerable trespass.

Natural History. A total of 38 rattlesnakes have been destroyed this spring season by the caretaker, in accordance with approval from the Director Office.

HOVENWEEP, by Thomas C. Miller, in Charge.

Travel this month, 27; travel year to date, 62.

This area was inspected in company with Regional Archaeologist Reed and Naturalist Steen on May 12. Twenty-seven visitors had signed the register during the month. The visitation seemed to be 95 per cent local. One member of the armed forces had registered. We hope to get the Roving Ranger at this area at an early date.

MONTEZUMA CASTLE, by Homer F. Hastings, Custodian.

Visitors this month, 205; travel year to date, 1611.

General. The weather continues to be hot and dry, with no precipitation for the month. On the night of May 17 there was an unprecedented late frost which did considerable damage to tender crops. Maximum temperature for the month was 100° on May 25. Minimum temperature was 34° on May 17. Mean maxim was 90.13; mean minimum, 45.63. There were 25 clear days and 5 partly cloudy days.

Administration. Reports and correspondence were kept current.

The custodian and his wife attended the FFFS school in Clarkdale and mad the all-day trip to the top of Mingus Mountain to receive practical training in how to put out a forest fire.

Six fire prevention posters were put up at headquarters area and at the monument picnic grounds.

A shipment of 10,000 information leaflets was received. Five hundred were wrapped and shipped to the Director and 50 to the Superintendent.

Relief was rendered Acting Custodian Cotter at Tuzigoot National Monumen on April 28 and May 13.

In response to a request from the Southwestern Monuments Association, a copy of "Snakes Alive" by Clifford H. Pope was mailed for donation to the library at headquarters.

Identification pictures of both employees at this monument were made an submitted.

"Before" and "after" pictures of stabilization work on the Tower Room door into the second story of the Castle were also submitted.

Sixty-three sets of museum artifact pictures were completed, bringing the total now complete to 461. One hundred and one sets were mailed to headquarters with duplicates retained at this office.

Maintenance, Improvements, and New Construction. The exterior woodwork of the museum and administration building was cleaned and given two coats of sagebrush green paint, with the exception of the door and windows in the rear of the building which were given a prime coat only. Lack of sufficient paint prevented completion of the project. Additional paint will be procured and the finish coat applied at an early date.

The recapped tire received from El Morro National Monument was mounted and the tires on USDI 1252 were switched, front to rear and left to right.

The 662 feet of abandoned underground electric cable was removed, wound onto a reel, and the trench refilled.

Floors in the living room, bathroom, and hall of both residences No. 1 and No. 2 were given two coats of floor preservative.

Trash was raked and hauled from all visitor trails. Weeds were cut from the Sycamore Trail, our nature trail, and from around trail stakes and signs. Some missing annual plants were transplanted to coincide with stakes set last year.

When it was found that cattle were able to cross, the west cattleguard on the Camp Verde road was cleaned. The rails were pried up and a total of 60 wheelbarrow loads of dirt was removed.

All boundary fence on the north side of Beaver Creek was patrolled and minor repairs made where needed.

Personnel. Ranger Reed took two days annual leave and one and one-half days sick leave during the month.

Guide Service. Total contact hours, 61.25; Reed, 23.75; Hastings, 37.50. Ruins trips, 39 for 120 visitors; museum parties, 40 for 146 visitors. Information service was rendered 43 visitors.

Use of Monument Facilities by the Public. Total cars, 66; Arizona cars, 40; total states represented, 17. Total visitors, 205. Number of tickets sold, 92; total revenue received, $25.85; number of armed forces admitted free, 11; children admitted free, 14, of whom 1 was taxed. Two Indians were admitted upon payment of tax only.

NPS Visitors. Ranger Clark from Carlsbad Caverns National Park.

Projects for Ensuing Month. Complete museum photographic project.

Locate exterior telephone connections for Residence No. 2, a project which may require considerable trenching around the foundation.

Refinish the floors of both bedrooms in both residences and refinish the walls in Residence No. 1.

Changing Trends in the Use of and Reactions to the Interpretive Program.

It appears that the type of visitor who was trying to rush across the continent and back in his month's vacation has been eliminated for the duration. Visitors now seem more willing to read the labels on museum exhibits and at least take a full hour for their trip through the ruins.

NAVAJO, by Bill Wilson, Acting Custodian.

Visitors this month, 2; travel year to date, 22.

Visitors, NPS, IS, and others: Altogether we had 14 visitors this month. However, only 2 could be counted as regular visitors. They were two young

men, one from Lima, Peru and the other from Guatemala City, now in the Southwest studying our Navajo Day School program. They were accompanied here by Mr. Evans of Tuba City and seven others connected with the Day Schools. Sinc they all wanted a close-up of Betatakin, I went down with them. On the morni of the third, the Ted Sowers' from Canyon de Chelly National Monument, and th Freemans from Chinle paid us an all-too-brief visit. I went with them around Sandal Trail. (Note: Although Government employees, these visitors received guide service and came to see the features for which the monument was created hence should have been counted. They will be included in the June count. C.A.R.)

Weather. Our nice weather didn't last long. We had about three weeks o high winds and sand. A little moisture during the first week of May, but not enough to do any good. Consequently the country is very dry. In spite of that there are lots of wildflowers in bloom, chief among them being the Scarlet Gilia, which fairly carpets the ground in places. The lowest temperature was 28 on May 11. The high was 82 on April 30 and again on May 2.

Radio. We've had no radio communication for the last three weeks. As yet we don't know the reason. However, we've written KTGM to see why they ar off the air and for how long. Other stations come in OK.

Maintenance, New Construction, and Miscellaneous. At long last the inspection trip to Inscription House was made. Since the Indian stock is too poor to get very far, we drove over to Inscription House Lodge and I got a horse from one of the Navajos and rode down. There were no signs of trespassing or vandalism. I have not taken the tools down to the fire-tool box at Betatakin for the lack of locks. Axes and shovels are the first things a Navajo will take if he has a chance. The gate at Betatakin was propped open with a rock, probably because the grass is good on the inside. Will keep an eye on it. The pit toilets and tool house door were painted between sand storms. A beginning was made on the hole for the gas tank, enough to determi that some blasting will have to be done. The photograph file was worked over and some old prints removed at Steen's suggestion. The usual maintenance and office work kept current.

Projects. Expect to do some painting on interior of residence and also the woodwork on the outside. The hole for the gas tank is a continued projec and the usual maintenance and inspection will be carried on.

P.S. (May 24) KTGM is on the air this morning. Their transmitter was out of repair. They will be standing by all day from now on as the lookout stations are now manned. Our call number is now KTGM-6.

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 3,531; travel year to date, 31,776.

Weather. More heat and no rain.

Travel. On May 15 travel reached the top of the hill and started down the lonesome ration-road, for on this date collection of ration stamps at the border was started on any article rationed in the United States with the exce tion of gasoline. The count shows a decrease of 41 per cent compared with la month.

Wildlife. Another trip was made to the head of Alamo Canyon and, contra to the information gathered from the local gente, the sheep have not moved o t

yet. More fresh sign was seen on this trip than on the one made in April. Another blacktail doe was seen on the ridge south of the Alamo. Water in the five tinajas was considerably lower, but there was still enough in the upper tank for a good cold swim. The depth was about four feet.

Two evenings were spent at Eagle Eye Pass from sundown until dark in an effort to gather information on the Coati Mundi. The only information gathered so far is that his habitat is in the low rocky hills.

On April 29, while on a patrol trip to Quitovaquito, a White-faced Glossy Ibis was seen feeding in the pond. I asked Jose Juan Orosco, Indian who lives at Quitovaquito, what he called the bird. He said in Spanish, "No es mas que uno cuervo" (It is nothing more than a crow). The name crow is definitely an insult to such a beautiful bird and I tried in my poor Spanish to tell Jose Juan what it was, but he stuck to his flat identification of JUST CROW.

On May 13 four Snowy Egrets were seen at the headquarters area. I was able to get within fifty feet of the tree they were in and with the field glasses I had a good view of all four.

Roads. Engineer Rutledge of the Public Roads Administration arrived on May 17 and two days were spent going over the road maintenance job with Mr. Cox. Mr. Cox arrived on the sixteenth to find that the grader and dump truck that had been sent down for him to use were both badly in need of repairs. Considerable time has been spent in repairing this equipment, but grading of the road will start soon, as the part needed for the grader is on its way from Phoenix.

Publicity. A Fitzpatrick Travelogue MGM reel was taken on the monument the latter part of April.

Administration. A great deal of time has been spent on grazing problems. The cattle count should be made, but the cattle are too weak to stand any kind of count. It seems a miracle that they even make it to water.

Construction. The sheathing of the roof on the temporary building was finally completed and if plans work out the floor will be poured and the walls sheathed during the coming month.

A shop and storage house were constructed for the maintenance man and space for parking his trucks and grader were found without leveling off the whole area.

Projects for the Coming Month. Some time will be spent with Mr. Welles of the State Game Department on sheep studies, if and when he arrives. I expected him last month, but as yet he has not put in an appearance on the monument. Three routine patrols will be made and the remaining time will be spent on the temporary building.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 560; travel year to date, 3683.

General. We have had an extremely hot and busy month here. Forty miles of aged telephone line has had to be repaired several times, nine days were spent going to and returning from the fire school at Bandelier. Several pack trips had to be made up into the Rincons. A large amount of clean-up, repair, and improvement work was accomplished at Manning Camp and a great deal of running around in connection with supplies for the summer's fire camp was accomplished.

Visitors. We have had 560 visitors this month who arrived in 127 cars, of which 50 were instate, 47 outstate, and 30 were Army vehicles. Two hundred

seventy-two of the 560 visitors were men in uniform. The Army had two overnight bivouacs comprised of 250 men during the month.

Guide time, 11 hours. John Peavy, 4 hours, 25 minutes. Marge Peavy, 6 hours, 35 minutes.

Work in Connection with Fire Protection. During my sojourn at the fire school, Ranger Guillet and Fireguard Duffield repaired and brushed out twelve miles of telephone line on the mountain. They cleaned out, fenced, and improved the spring, cut out logs from main trails, constructed an aerial for the S V set at the lookout tower, thoroughly cleaned the cabin, corral, and barn at Manning Camp and a cleanup of surrounding area.

After my return from fire school, Duffield and I packed up a battery charger, batteries, radio, and gasoline. The aerial for the low frequency set was constructed at the tower and contact was made with the monument headquarters that night. Fireguards Duffield and Hendrickson were installed on May 19. Since their stay there, they have repaired two miles of pasture fence, set up the weather station, and changed the wind gauge and anemometer from the tower to Manning Camp, have patrolled the area and constructed a fire line around the camp.

Forester Carlson and Ecologist Ratcliff arrived on May 24 to take a trip up the mountain. Part of the grazing allotments were ridden over and the mountain setup was inspected.

NPS Visitors. Chief Ranger Lehnert and District Ranger Convis of Boulder Dam National Recreational Area were here on the evening of May 8 and part of the ninth. A great deal was accomplished in getting the proper operational results from our two low frequency sets. Mr. Lehnert and Mr. Convis checked both sets and found the faults and instructed me in the construction of a proper aerial and operation of these sets. They both work excellently at the present time.

On May 24, Al Bicknell arrived with 42 telephone poles and 35,000 feet of telephone wire from White Sands.

Cooperation. Dr. Mielke has been working on the saguaro disease in the area most of the month. He is uncovering quite a few facts about the disease not known before, but for future publication.

Radio contact between Mica Mountain Tower and the U.S.F.S. Lookout has not been established as yet due to the shortage of batteries at Mt. Bigelow.

During my trip to Bandelier, Marge attended a meeting in Tucson of the Forest Fire Fighters Service. This meeting was called to consider arrangements to protect the national forests. Men will be available for fighting fires in emergencies from the prison camp, ranchers, Boy Scouts, and County and State Highway Commission.

Publicity. Part of a "Travel Talk" was taken by MGM within the monument on the twenty-seventh.

Telephone Line. The main two-wire line from the X-9 Ranch to Esmond and within Davis-Monthan Field was gone over for trouble twice during the month. At present the single wire line is working well and the two-wire line is fair.

Signs. Two temporary signs were placed at the Colossal Cave turn-offs on the Vail road.

Roads and Trails. The loop road is in fair shape although no maintenance has been accomplished during the month. All trails up to the timbered area are in poor condition. Timbered area trails are in fair shape.

Noted Changes in Visitor Reaction Due to War. No changes noted over previous months.

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Projects. Continuing: Five boys have been working Saturdays on the demolition of Unit IV reconstruction. Progress has been satisfactory and the results apparent, despite the slowness of the work due to the extraordinary resistance to sledge hammers of the 2½ to 3½ feet of solid concrete and stone masonry above the old walls. All roofs are now removed and the timbers piled in the refuse area below the hill, awaiting removal by Montezuma Castle, where they are to serve as fuel. Sledge handles are constant casualties of this work, and the Acting Custodian has turned to the Catalogue of Available Property for assistance. He has found seventy therein listed, and has resolved to find out how long THESE will last. It is planned to leave a few inches of restoration masonry on top of the original walls at Unit IV as a stabilization measure. Present estimate of the duration of this work takes up to July 1, 1943, and possibly beyond for the cleanup job that must follow the demolition of the walls.

The Acting Custodian has continued using all time not devoted to plant maintenance and contact work to the Unit IV demolition project and to the removal of old fencing inside the newly fenced boundaries of the monument. Old fencing along the south and west side of the hill has now been completely removed.

Nature Note. Several large and extraneous fowls known to be exotic to Tuzigoot have been ushered off the monument by the Acting Custodian. They are refugees from a private peacock hatchery just below Tuzigoot. The A.C. has been unsettled several times by coming upon a strutting peacock flaunting his finery from the ruin top or the roof of the museum. This is no Persian garden. And we hate peacocks.

WALNUT CANYON, by Paul Beaubien, Acting Custodian.

Visitors this month, 341; travel year to date, 2557.

General. We had some spring weather early in the month but a hard freeze on the seventeenth killed some plants and damaged many others. About half of the oaks lost their leaves.

Visitors. Of the 341 visitors, 38 were not contacted, and it is estimated that 200 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien, 30; Fish, 14.

Changing Trends in Public Use, Etc. Nothing new observed.

NPS Visitors. "Spud" Bill brought in Regional Director Tillotson for his first inspection of the CCC improvements here. Regional Forester Carlson made a call to inspect fire tools and discuss forestry problems. Bill Wilson came to return a Pulaski tool. Al Bicknell stopped by for a wood saw and engine which I held out on him.

Personnel. Ralph H. Fish entered on duty as seasonal ranger May 3. The Acting Custodian had one day of sick leave.

Activities. Three reels holding three miles of 3-strand copper cable were emptied in order that they might be returned. Six miles of telephone line were overhauled for the first time in years, and about 1/4 mile of new line constructed. The line was placed in a conduit under the railroad. Water was turned on in Residence No. 3 and several leaks were properly repaired where connections had originally been sealed with putty. The picnic area was given a spring overhauling. One-half day was spent on a non-reportable fire. The water line ran dry because of a faulty float valve at sump and as this is being

written we are having difficulty getting water back through the line. Ranger Fish overhauled and partly rebuilt the wood saw and engine. He also did some good work reconditioning tools such as chisels, planes, saws, etc. But most of our efforts were directed toward repairing leaking roofs, and this is a project that will last for weeks.

Projects for Ensuing Month. Get the water line functioning. Saw some wood so that saw can be returned to Chiricahua at the next opportunity. We'll continue on roof repair and hope that we can get to the garage building proje The latest bad news is that one-half mile of our telephone line along Highway 66 will have to come down because of a change in the location of the road. I haven't learned yet whether it will have to be moved immediately or whether w can move it this fall.

WHITE SANDS, by Johnwill Faris, Custodian.

Visitors this month, 3378; travel year to date, 19, 428.

We were fortunate again this May in that we surpassed our travel of a year ago. Thirty-eight hundred seventy-eight visitors in 551 cars represent our May travel. Weather conditions have been probably normal with more than our share of wind. A high of 98° was recorded May 3 and a low of 36° was sho for May 10. Soldiers and their families account for 1815 of our visitor coun with promise of many more next month. A new ranger arrived and is getting in the swing of things in grand style. Two custodians were in on short stopover a ranger attended fire school, and we acquired a wagon scraper for future roa work.

Most of my time for the month has been taken up in regular routine work in connection with normal monument demands. Several trips into the Sands were made with representatives of special groups planning to visit the Sands. All this was Army use and, if carried out as was planned, we can expect a decided increase in our soldier traffic. In connection with our soldier traffic, it is interesting to see the widespread effects of these visits. When one group visited our area I had the pleasure of taking in their mail on one of my trips to town. Out of the 111 pieces mailed, sixteen states were represented as follows: New York, 42, Massachusetts 18, Ohio 10, Rhode Island 9, Indiana 7, Illinois 6, Vermont 5, Pennsylvania 4, Nebraska and Kentucky 3 each, New Hamp shire, Connecticut and New Jersey 2 each, and Michigan, Florida and West Virg with 1 each. This was only one group and we have had, and are expecting, sev eral others. It is not at all uncommon to hear the boys remark, "Boy, when this is all over I'm sure going to bring my folks (or family) to see White Sands. I never knew such a place existed", etc. Was our face red, however, when, after hearing the usual praise of our area, a young chap added, "But I would trade the whole damn thing for just one glimpse of Coney Island." In spite of the "Coney Island" opinion, we can not place a value on the visits we receive from our soldier groups. The effects will be far reaching, I am sure.

Nothing of major importance has been done on maintenance. We did receiv a large wagon scraper from Zion National Park but are unable as yet to ascertain its worth. Our caterpillar is not equipped with the hydraulic unit nece sary to operate the scraper. We have been forced to fall back on the old Fresno and that of course increases our work tremendously.

Needless to say, the White Sands Service Company has probably experienc a banner month, especially with the travel restrictions and difficulty exper -

enced in securing supplies. Mrs. Shepperd has been assisting Mrs. Charles who has just returned from a visit to her home in Kansas. Mrs. Charles flew back and visited several places en route. She vows she will make all her future trips by plane. We accuse her of dropping White Sands leaflets out of the plane window whenever she passed over any town but as yet have not been able to prove this point.

One agency just getting firmly established in Alamogordo is the USO. Last week we were informed that a White Sands trip was placed on a regular schedule of events and every Tuesday morning a group of soldiers' wives would be out for breakfast and a frolic in the Sands. This will in no way affect the numerous picnics and parties held in the evenings.

Our contact in the museum will show a decided increase with the special Army groups all coming in the museum. Too, we, in several instances, plan to give a short talk on the Sands in the area. The museum seems to be liked by all the boys and it is surprising the number we get that have a knowledge of geology. Last week I heard a lieutenant giving his boys a short lecture on the sands. Upon inquiry I discovered he had majored in geology at the Texas School of Mines and had made a special study of the gypsum sand dunes of Alamogordo.

Mention has been made of our new ranger, Roy Knabenshue, and his wife Jane. They arrived on May 5 direct from our Chicago office. Roy and Jane both came with nothing but praise from all who know them and we are finding they both live up to their reputations. Roy is getting well established and Mrs. Knabenshue, after a few blows with the custodian over delay in getting her house livable, is able to get a dish washed and possibly herself a bath without the plaster falling off the wall or the drainboard peeling off on the dish rag. 'Tis a cruel ole world and hell will probably be full of custodians and Park Service superintendents. Roy has had a wonderful career and can tell some most interesting stories of early days in lighter-than-air craft.

Several visitors of special importance have been in. General Case and Colonel Pulliam of the 32nd C. A. Brigade were in and we enjoyed them a lot. Much good has already resulted from their visit. John Peavy was in early in the month to take Paul to Santa Fe for fire school at Bandelier. Al Bicknell dropped in last week with our wagon scraper and took out a load of poles.

June promises to be a splendid month and I'll beg off now, Chuck, with contacts being the main project for the month, especially in the early part.

WUPATKI, by P. F. Van Cleave, Acting Custodian.

Visitors this month, 87; travel year to date, 441.

This month's activities have been largely routine, with only two trips being made in ruins inspection. One trip to the vicinity of Ruin J, and one to Heiser and Wukoki Ruins showed no further human or animal depredations. The major share of damage at and around Wupatki Ruin is being caused by burros grazing too close upon the ruins. An attempt is being made to shut off the water supply of these creatures so as to force them to water at Heiser and Coyote Springs, where no damage is possible.

During my absence while at the Bandelier fire school, Mr. J. L. Robertson acted as my relief and gave aid to a C.A.A. photographer who thought that his car was stuck beyond all hope of salvage on one of our poorer roads. To obviate the chance of visitors getting off the beaten path in the future, I

hope to place warning signs at both entrances to the monument, declaring all unmarked roads as out of service.

Weather. After a warm start, the month developed into a cold snap from which it is only now starting to recover. The high for the month was 92 degr on the first, and the ninth and seventeenth tied for low with minimums of 39 degrees. The first three weeks were markedly windy with considerable dust in the air every day.

Roads. No road work has been attempted this month and there has been no appreciable change in road conditions. When such change does take place I hop that I'll be able to report it as a definite improvement. The total rainfall of one tenth inch for the month has not been sufficient to keep the dust down much less to do any erosional damage to the roads. The Highway Department ha widened the shoulder at the entrance so that the sign installation may be mad as soon as time avails.

Visitors. Park Service personnel at Wupatki this month included Fred Fagergren, Don Jolley, Paul Beaubien, and Stu Carlson. The regular visitor count is up about twenty per cent over last month.

General. The sewer line is now only partially clogged, an opening being obtained on the tenth of the month. Coyotes were heard for the first time in two months on the night of the twenty-third, and then in considerable numbers all along the top of the mesa in back of the house.

YUCCA HOUSE, by Thomas C. Miller, in Charge.

Travel this month, 3; travel year to date, 54.

An inspection was made of this area, by the custodian, on May 13. Three visitors had signed, including one member of the armed forces. The Ismay's were shearing sheep. Mrs. Ismay stated that Yucca House had been visited by several cars of people; however just three people had actually signed the register. Fence and signs were OK and no evidence of vandalism was noted.

SUPPLEMENT

The following information of interest to the field was extracted from th Superintendent's May Narrative Report for the Director.

General. May was a busy month. Superintendent Richey was Acting Regior Director much of the time, and aided with the dispatching of the Region Three Office routine in addition to handling Southwestern National Monument's proced ure. Mr. Richey also assisted with the assignment of office space and furni- ture to the Army personnel who moved into the Region Three Office Building during the last days of April. Several grazing permits were drafted and fore fire protection problems were handled.

Special Activities. Superintendent Richey met with the president and other officials of the University of New Mexico to discuss problems pertaini to the exchange of federal lands for the University-owned lands in Chaco Can National Monument.

Several conferences were held with Mrs. Frey and War Department officia regarding the possible leasing by the War Department of the Frijoles Canyon Lodge, Bandelier National Monument.

The Superintendent attended some sessions of the Region Three Fire Scho at Bandelier National Monument May 3-5. A staff meeting which was attended the fire fighters was held on May 6, following the fire school.

The Superintendent made a trip to Chaco Canyon, Aztec Ruins and Arches National Monuments to advise the personnel on certain field problems.

Assistant Superintendent Maxwell was in the office the entire month, aiding with the Southwestern National Monuments and Region Three Office routine, acting in various capacities during Messrs. Tillotson's and Richey's absence.

Travel Trends

Travel to national monuments of the Southwestern group continued to fall off, although visiting units of the armed forces and war industry workers traveling to new locations brought visitors to nearly all areas. Several custodians report a decided increase in local visitors coming by transportation other than automobile. A few areas show a slight increase in travel over May 1942, the outstanding example being Organ Pipe Cactus National Monument. The great increase is due to persons crossing the international boundary into Mexico to obtain items which are rationed in the United States.

Personnel

Appointments

Jewell L. Eden, Park Ranger (Seasonal) Bandelier National Monument, effective May 1, 1943.

Ralph H. Fish, Park Ranger (Seasonal) Walnut Canyon National Monument, effective May 3, 1943.

Peter N. Windes, Junior Fire Guard, Chiricahua National Monument, effective May 1, 1943.

Pedro R. Gomez, Under Fire Guard, Bandelier National Monument, effective May 4, 1943.

Transfers and Changes in Status

Roy Knabenshue, intra-transfer and change in status from Senior Clerk (Aeronautical), Branch of Land Planning, Chicago, Illinois, to Park Ranger, White Sands National Monument, effective May 6, 1943.

Forest Fire Protection

The Region Three Fire School was held at Bandelier National Monument May 3-5. Participants totaled 37, including instructors, trainees and visitors from the Region Three Office and the Forest Service. The camp was conducted similarly to a typical fire camp. Meals were prepared and served in the open and the men were housed in tents. Army K rations were served one day. Although there was considerable good-natured "griping" the Army K rations appear to be a satisfactory ration for emergency fire fighters. The success of this type of training can be measured only by the degree of success shown in future fire control projects, but it is believed that all who attended the school came away with a broader wisdom in forest fire problems.

* * * * * * * *

In the March and April reports we quoted the first and second groups of questions of Johnwill Faris' training course given at White Sands in December. The third and final group is quoted below:

Arizona Archeological Center Library

Third Examination

1. What is a master plan? Into what parts is it divided? What classificati are given in the construction program on physical improvements? What is mean by a physical plant index? Who concurs and who recommends a master plan? Wh is meant by P.C.P.? When are revisions allowable?

2. What branch constructs minor roads in a park area? Major roads? What agency has charge of sanitation and health in our national parks? What branc supervises purchase of signs, auto tags, etc.? Safety, fire prevention, buil ing fire prevention, etc. are usually under what man in a park or monument? Who is responsible? Who prepares the Construction Unit Cost Report in an are

3. Outline a typical national park area organization. Name the personnel of cer of the National Park Service. Under what branch does he operate? What i meant by "in service training"? Do you understand the efficiency rating syst as used by our Service? Who is partially responsible for the personnel in ou Service? What is our one weapon in choosing proper personnel? Who signs the mail in the absence of the superintendent or custodian, and how? How would y address an official communication to Hillory A. Tolson? An official communic tion to the president of the Standard Oil Company?

4. What is the fundamental purpose of a uniform in the National Park Service Whose responsibility is the uniformity of uniforms in an area? Is this impor ant? Why? Name four winter sports endorsed by the Service and give two reas why they are so endorsed. Discuss, briefly, the National Park Service policy in regard to public relations and publicity.

5. Trace the steps in the proper investigation of a new area for possible ac quisition. What major characteristics must be considered? What, roughly, do our Park, Parkways, and Recreational Study embrace? To whom do we take major offenders of park rules and regulations? Who is responsible in any area for the enforcement of our rules and regulations?

6. Who is our Regional Archeologist? What is archeology? Can you trace the steps from early man to historic times as may be used at Mesa Verde, for instance? Why is an adequate Historic Sites Survey of vital importance in our Service? Would such a program be of value in England, Russia, Italy, etc? Wh

7. Briefly, what advantages are to be gained from a properly planned Soil an Moisture program? Forest and Forest Fire Protection program? Insect Control program?

8. Describe, briefly, what is mean by park area development? Campground protection, as described in our training course? Can you give at least six case where a geologist might be used in a park or monument?

9. From what appropriation are funds usually allotted to cover the cost of a building in a park or monument that has been destroyed by flood? List two wa in which requests to create a national park may originate. Very briefly, wha is the National Park Trust Fund? Advisory Board? National Capital Parks?

10. Do you appreciate that this course and these questions are merely a guid that you may enable yourself better to understand the Service? Do you feel you have profited from it and that the time and study you have given have be well spent? Do you understand that the course is not finished until you hav made up a personal manual with all of the questions, space for reference, no and correct answers given to each question? In brief, what if anything has this training meant to you? Do you recall any questions asked that were not discussed, or especially called to your attention?

PERSONNEL NOTES

Many of you may have heard of Luis Gastellum's good fortune, a break for Luis, although it constitutes a loss for the Park Service. Luis has been appointed Associate Administrative Officer with the Coordinator of Inter-American Affairs with offices in Asuncion, Paraguay. His salary will be $3,800 per annum with an additional $1,500 for living expenses. When Luis last wrote he stated that he had received his release from the Park Service on May 12 and was taking "shots". He reported that he would be in Tucson until about the middle of June. Aggie, Marie Celeste, and Gloria will stay in Tucson with Aggie's mother and will not accompany Luis to South America.

Seasonal Ranger Joe Thomas with his wife Virginia, and four-months-old son, Ronald Joe, left Santa Fe late in May for duty at Canyon de Chelly this summer. Joe teaches science in one of the junior high schools in Santa Fe, and spent several hours at headquarters getting acquainted with the staff and selecting library books so that he could study up on de Chelly's numerous scientific features. Joe and his family have all the marks of real Park Service material, and we prophesy that when this summer is over they will be back for more.

Ruth Richey's mother arrived recently from Seattle where she has made her home. She intends to stay in Santa Fe for the duration or longer.

Helen Maxwell is doing her share, and then some, toward promoting wartime activities in Santa Fe. A home economics major, Helen has been active in victory garden work and in the organization of ways and means of informing housewives how most effectively to meet food rationing conditions. She has been called upon to speak over the local radio and otherwise broadcast information on how to meet the food shortages. Needless to say, Helen is frequently called upon by Park Service housewives in distress.

Headquarters staffmen were honored recently by a visit from Gordon Vivian (Chaco Canyon Mobile Unit), who spent an afternoon in the office and brought a lot of news items regarding the whereabouts of former SWNM personnel. Gordon is employed as a civilian Army engineer at an airbase at Pecos, Texas. He reports that, for some reason unknown to him, he has been made an accountant for "although I don't know much about figures, I have a big machine that is smart as hell". Gordon had heard recently from Dale King and Bob Lister. Dale is now a corporal and expects to be sent soon to Officers' Candidate School, while Bob Lister (Bandelier and Casa Grande seasonal) is married, and is at Fort Benning, Georgia.

In his monthly report "Gyp" Faris tells of the arrival of his new ranger, Roy Knabenshue, and his wife Jane. Welcome to Southwestern National Monuments, Roy and Jane! We hope that you will like the Southwest, and prophesy that it won't be long before Johnwill has sold you on the theory that the White Sands is the only real monument in the Region.

Cal Miller writes in to say that PFC Eugene R. Current of the USMC and Lt. Wm. F. Hately of the Army Air Corps, both former employees at Aztec Ruins, returned to the monument for a short visit. Hately pilots a P-38 when on duty. Both of these men are local Aztec boys and both were tough hands on the Aztec High School football teams where they learned the game from George Baxter, now custodian at El Morro, who was formerly coach at Aztec High.

Our sympathy to Gene Stonehocker who, Al Bicknell reports, received a painful injury to his hand which has laid him up for several weeks. After a tough siege in the hospital, Gene had just returned to work when he received

the injury. Gene is one of these fellows who seem to get a lot more than their share of the tough breaks.

The NPS Personnel Bulletin for May reports "Lt. Jesse Jennings (Montezum Castle), Associate Archeologist of Natchez Trace Parkway, has received his Ph. D. from the University of Chicago".

At the last Region Three Office staff meeting, Regional Director Tillotson highly complimented the personnel of Southwestern National Monument both headquarters and field areas, for their splendid showing in bond purchas resulting in the award of a Certificate of Excellence. This is one of three such certificates held by Region Three units, the others having been awarded to the Region Three headquarters office and to Carlsbad Caverns National Park Mr. Tillotson stated that he considered the SWNM award particularly commendab because of the scattered nature of the organization. He considers this show as further evidence of the strong loyalty and esprit de corps of the SWNM per sonnel, characteristics for which our organization has long been noted.

Jimmie Brewer writes in from Camp Endicott, Rhode Island, to remark that the report of his "gas attack" in last month's "Personnel Notes" was grossly exaggerated. He says his gas mask didn't leak, and that the reason he went t the hospital was to have his throat painted for conjunctivitis caused by dri field dust. Thanks, Jimmie, for the correction. We were very glad to hear from Jimmie, to learn that he is getting "Personnel Notes", and to have his new address. Both Jimmie Brewer and Jim Eden are at Camp Endicott, and Bill Supernaugh is at nearby Camp Edwards, Massachusetts. The fellows plan a get-together.

A card from Corky Jones acknowledges receipt of "Personnel Notes" and promises some items of news in the near future.

Field men are requested to make sure that their wives have an opportunit to read "Personnel Notes" which now takes the place of "The Grapevine" forme published by SWNM HCWP's. So far, Sallie Brewer is the only one who has actively followed through on the new program which, to be successful, require the cooperation of everyone. And remember, "Personnel Notes" not only takes the place of "The Grapevine" in bringing news of our organization and its members to the personnel of the monuments and their wives, but it goes also to all SWNM personnel now in the armed forces. Complete coverage not only keeps us informed of one another's activites, but brings greater pleasure to the fellows now actively serving under arms. Let's hear from some of you other HCWP's, regularly!

Following are news items sent in by Sallie Brewer:

Corporal Dale S. King, Hdq. Sqd. Third Bomber Command, spent a few days in Florence and Coolidge the middle of May; Dale was on leave and came from Florida in a B-24; he wanted to know if they disturbed Frank Fish when they came over his house at 4:15 p.m. on May 13--said he didn't quite have time t see if Frank was taking a siesta under one of the trees.

The Bob Rose's visited us for a few minutes the first week in May--they like Boulder Dam but Marie said it was like coming home, to see their former residence and the Casa Grande.

Harry Reed came down to get his personal car on the nineteenth; his answer to "what's new up there?" was "not much of anything since the stork made its safe landing at Tuzigoot".

Mighty slim pickings this month--news to me was a card from Gertrude Stevenson saying Bill was in Officer Candidate School at Camp Peary; she and the children are in Oakland and she says Bill likes his choice very much--"they are all men".

Rumors don't count but we'd be interested in confirmation, if any--for instance--is Luis Gastellum in South America?

Philip Van Cleave is carrying on with Davey's job of secretary to the Navajos of Wupatki Basin--writing newsletters to the Navajos in the armed forces, and transmitting a "piece of rug" from Clyde Peshlacai to Sallie Brewer with Clyde's oblique reference to the fact that it is time to plant watermelon and cantaloupe if one had seeds. (The seeds are on their way--it is a very nice little piece of rug.)

* * * * *

Davey Jones writes from Atlantic City where he is taking basic training as photographer in the Air Corps. He reports visiting the Director's Office where he missed Hugh but talked with Chris on the telephone. He apologizes for the brevity of his letter, excusing it on the grounds that he has to get up at 1:30 a.m. to go on KP until 7:00 p.m.

Note McKinney's report: what a trick of fate to wash a gully between a man and his automobile!

(Editor's note: We wonder why Jimmie Brewer had his throat painted for conjunctivitis, which we thought had something to do with the eye--but there are lots of things we don't understand.)

MAY 1943, TRAVEL RECORDS

STATION	May 1943	1943 Travel Year	May 1942	1942 Travel Year
Arches	92	478	219	1148
Capulin Mountain	300	3800	1200	9700
Chiricahua	255	1914	526	3608
Natural Bridges	0*	47	0*	15*
Organ Pipe Cactus	3531	31776	100	4435
Rainbow Bridge	0*	0*	0*	0*
Saguaro	560	3688	525	8873
Sunset Crater	332	1705	302	2230
White Sands	3378	19428	3101	24941
Total Biol-Geol	8501	62836	5973	54950
Aztec Ruins	399	2287	544	2665
Bandelier	316	1795	446	1693
Canyon de Chelly	13	200	171	752
Casa Grande	467	5954	1092	10962
Chaco Canyon	16	138	64	239
El Morro	25	150	56	255
Gila Cliff Dwellings	0*	10*	5*	10*
Gran Quivira	44	248	143	877
Hovenweep	27	62	0*	0*
Montezuma Castle	255	1611	531	3888
Navajo	2	22	12	31
Tonto	236	2115	526	4444
Tumacacori	265	5567	414	4906
Tuzigoot	202	2307	526	3835
Walnut Canyon	341	2557	704	3799
Wupatki	87	441	147	993
Yucca House	3	54	0*	0*
Total Hist-Archeol	2648	23518	5387	39379
GRAND TOTAL FOR MAY	11149	86354	11360	94329
Last Month	13126	75205	14710	83029

*Estimated.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

July 21, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

June narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Associate Naturalist Dodge spent the entire month at the Headquarters Office attending to routine matters. He visited Gran Quivira National Monument, and Abo and Quarai State Monuments on personal time. He spent one day at Bandelier National Monument aiding the Custodian in fire suppression matters.

Assistant Naturalist Steen spent the period June 21-June 27, inclusive, on ruins stabilization inspection activities at Hovenweep, Aztec, Chaco Canyon, El Morro and Bandelier National Monuments. He spent the balance of the month at the Headquarters Office on the routine Archeological matters, included among which was the completion of two special reports.

Public Relations - Publicity. A radio program entitled "A Visit to Montezuma Castle" prepared by Senior Clerk Earl Jackson was presented on June 4 over Radio Station KYCA at Prescott, Arizona.

Extension Services. The following illustrated programs were presented by headquarters staff members:

June 2, 15 Santa Fe Girl Scouts, "Birds",
June 9, 23 members, Santa Fe Lions Club, "National Monuments of New Mexico",
June 22, Laboratory of Anthropology, 73 Guests, "National Monuments of the Southwest".

Loans, Gifts, Accessions. Forty-nine publications were received by the Headquarters Loan Library from the Carnegie Institution of Washington. This important accession is a valuable addition to the Headquarters Loan Library and was presented by the Carnegie Institution as part of a gift made to the National Park Service. Distribution of the gift publications was made by the Director's Office.

Progress of Exhibit Plants and Projects. Art work for the final plans for exhibits at the Walnut Canyon National Monument museum was received from the Western Museum Laboratories.

Staff Research - Observations. Bird-banding schedules for the fiscal year ending June 30 were compiled and submitted to the Fish and Wildlife Service. Wartime conditions and other factors leading to staff reductions have practically eliminated bird banding from the activities of custodians and rangers. Only eight individuals of four species were banded during the fiscal year.

Arizona Archeological Center Library

Library. A total of 104 publications were received. In addition to the 48 books and one pamphlet donated by the Carnegie Institution of Washington, library accessions consisted of three books, 11 reports, 40 periodicals and two pamphlets. Naturalist Steen spent several days in the library attempting to untangle the mess occasioned through the hurried dumping of all accumulated publications in the library when storage rooms were cleared for use as Army Recruiting Offices. The book "Meeting the Mammals" by Vic Cahalane was a welcome addition to the library.

Southwestern Monuments Association. Certificate of Incorporation papers were reviewed by the Chief Counsel of the National Park Service and, as the month ended, were ready for submission to the New Mexico Corporation Commission. The Association experienced a greatly increased demand for postcards, due to the fact that concessionnaires at several monuments have closed for the duration. All affairs of the association were current at month's end, and the association's annual report was complete except for the financial statement which was being prepared.

Status of Archeological Projects. A ruins stabilization project at Bandelier National Monument which required the excavation of five rooms of Ruin Group M (a cavate group) yielded a number of interesting artifacts. Ruins stabilization work continued at Aztec Ruins and Chaco Canyon National Monuments. The project at Tuzigoot National Monument was terminated. A small amount of stabilization was accomplished at Hovenweep National Monument in the course of inspections by Naturalist Steen.

Photography - Visual Aids. Custodian Toulouse kindly bound the following Kodachrome frames for the slide library. Bandelier, 7; Southwestern National Monuments, 47; and Region Three Office, 54; a total of 108 slides.

Several insect photographs were taken for the proposed Southwestern Monuments Association publication "Poisonous Dwellers of the Desert". About 25 feet of 16MM Kodachrome film exposed during May was added to the Bandelier National Monument motion picture reel, completing a project started several years ago. Museums specimens from Canyon de Chelly National Monument were photographed for the records.

Reports and Memoranda. Naturalist Steen finished an illustrated report "Temporary Exhibits completed at Casa Grande National Monument during the winter of 1942-43." Steen also finished and submitted a report entitled "Summary of Ruins Stabilization at Casa Grande National Monument, 1889-1943."

Office Visitors. The following persons had official business with the interpreters during June: Rangers Judy Eden and J. W. Hendron of Bandelier National Monument; Superintendent Emmert of Hot Springs National Park; Stanley Stubbs of the Laboratory of Anthropology; Mrs. Kate Peck Kent of the Denver Art Museum, and Lt. Robert Ariss, former seasonal ranger at El Morro National Monument.

Wildlife Management. Sometime was devoted to a study of the trout-stocking problem at Bandelier National Monument.

Reaction of Visitors to the Interpretive Program as Influenced by Wartime Conditions. Tumacacori's Custodian reports that visitors show more interest in the ruins and in the museum than heretofore; that they spend a longer time in the museum and that the majority express hope that they may return and bring friends with them. At Casa Grande, visitors spend more time in the museum than in the past. The Custodian at Tuzigoot National Monument reports that the proportion of local to out-of-state visitors has increased, and that an increasing proportion of visitors come by means other than motor vehicles.

Technical Aid to Administrators. Field men were informed regarding revised rules and regulations relative to issuing permits for the taking of motion

pictures on National Monuments. Superintendent Emmert of Hot Springs National Park was provided with information relative to the Southwestern Monuments Association, and whos how the Headquarters Loan Library functioned. Aid was given custodians in the identification of insects causing inconvonionce to monument personnel and visitors.

Miscellaneous Overhead - Routine. The usual number of requests for information were answered. Travel certificates were compiled, travel reports from the field were checked for accuracy, and travel records were forwarded to the Director's Office. Library service was provided insofar as time permitted. Ninety-four letters were written by the interpretive staff during the month.

Regional Naturalist Activities. The "Prospectus for a Public Use and Exhibit Building, Carlsbad Caverns National Park" was carefully reviewed and comments prepared. Concurrence on the comments was secured from Regional Technicians concerned and the prospectus submitted to the Regional Director for approval in the request that it be returned to Carlsbad Caverns National Park for revision. At the request of the Regional Director, suggestions were made relative to limitations upon the use of the old fort at Pipe Springs National Monument for the making of a proposed commercial motion picture. The Associate Naturalist devoted some time to serving upon the Region Three efficiency rating review committee.

Projects Planned for Next Month. Any time available after routine matters are completed will be devoted to preparation of exhibit plans for the Walnut Canyon National Monument museum, the preparation of a report on ruins stabilization activities at Hovenweep National Monument, and forwarding the book publication project of the Southwestern Monuments Association. Several extension service talks are schedules for July.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors for the month, 111; travel year to date, 589.

We have had about one inch of rain during the month, but it was scattered out in small showers to the extent that it did not do much good. Snow is about gone from the La Sals and irrigation water is becoming pretty short for the farmers in Moab valley. Courthouse Wash has been up several times and has done quite a lot of damage to the Windows Section. It was up when Johnwill Faris was up and I did not get to take him out in the monument. But I did show him some of the most wonderful scenery that he ever cast those come-and-get-me eyes of his on.

Eight days were spent on horse-back patrol and the balance of patrol was done by foot and pickup. The sheep were up in the mountains until fall, so my worries with them are over until the last of October.

One trip was made to Blanding, Utah, on official business with the Lyman Garage concerning some purchases made for Natural Bridges National Monument.

J. Wiley Redd spent four days working at the utility area. One day was spent with Carrol Miller at Natural Bridges, and one day was spent with Mr. Robert Connoll, taking shots for "Stranger Than Fiction." Mr. Connell is due back in the morning to make a trip into Delicate and Landscape Arches.

Several days have been spent in moving and restacking lumber, pipe, etc., in the storage building. Just about every piece must be carried part way out of the building, before it can be turned, so it can be stacked. Quite a chore.

The youngsters are all in New Mexico, visiting, and I am here alone with the mice and rattlesnakes. I have only found two rattlers on the front porch so far

this summer and they were rather friendly fellows. I have decided that they must be after the mice that are in the house. I'm undecided which to do, let the snakes in or the mice out.

Most of the trees that were planted early in the spring are holding their own, but we have about 60 or 70 days of pretty hot and dry days before us, so I don't feel so happy about some of the larger ones I planted.

Saw Carrol Miller while at Blanding, and had about an hour's visit before he and Wiley took off for the Bridges.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 360; travel year to date, 2647.

General. The most part of the month has been hot and dry. Visitor travel has been slow compared with former years. However, we have handled our visitors in the usual manner and at the same time accomplished more than enough to offset any decrease in travel in the way of stabilization and preservation of the ruins.

The Custodian was absent on annual leave from May 30 to June 7, inclusive. Our vacation was cut a little short due to the fact that our son, Arthur, came home from the Navy on furlough, so we came home early in order to be with him during his brief visit.

The custodian made an inspection trip to Natural Bridges, Hovonweep and Yucca House National Monuments from June 21 to June 23, inclusive.

Edward L. Madson entered on duty on June 3 as roving ranger for Hovenweep and Yucca House National Monuments. It was necessary to give him his basic training here at Aztec Ruins before taking on his seasonal work. To date he is working out exceptionally well.

Use of Monument Facilities. Our travel for the month was 116 cars, 360 people, as compared with 205 cars, 77 people for June, 1942. The travel by states was as follows: Arizona, 23; Arkansas, 3; California, 35; Colorado, 70; Georgia 2; Illinois, 3; Indiana, 1; Minnesota, 6; Mississippi, 3; Missouri, 10; New Mexico 135; Oklahoma, 4; Ohio, 4; Texas, 31, Utah, 15; Wyoming, 12.

Our collections for June showed an increase over May with a total of $44.05 even though the total visitors shows a decrease. This was due to the fact that more of our visitors took advantage of the regular service instead of being listed as information contacts only. A total of 154 guide tickets were sold, 8 complimentary tickets were issued and 17 members of the Armed Forces were admitted free. Tax was collected on 23 children and 40 additional children were admitted free. Twenty-three cars with 80 people visited the area but did not take advantage of the regular service.

Sixty-five parties, 242 people, visited both the ruins and the museum. Guide time for personnel was as follows: Custodian Miller, 23-3/4 hours; Ranger Mahan 51 hours; Ranger Madson, 18-3/4 hours.

Weather. This part of the country finally decided to warm up after a very cool May. The maximum temprature for June was 92 degrees on June 23 and the minimum was 38 degrees on June 5 and 16. We had precipitation on 11 days during the month, with a total of .56 inches. Our heaviest rain occurred on May 29 when .19 inches fell. We had 21 clear days, 4 partly cloudy and 6 cloudy.

NPS Visitors. Custodian McNeil of Chaco Canyon, accompanied by Roy Newton, Navajo laborer, was in on business. Seasonal Ranger Collier from Chaco Canyon, accompanies by his family, also visited the ruins.

Custodian Faris, of White Sands National Monument, Bob Ariss, former seasonal ranger at El Morro National Monument, Mrs. H. W. Brawley of Washington, D. C.,

wife of former seasonal ranger Brawley, Lois Beaubien, wife of Custodian Beaubien of Walnut Canyon, all visited the area during the month.

Supplied and New Equipment. Five thousand guide tickets were received during the month. The museum settee was completed and put into use in the lobby of the museum. Four tires on USDI 1235 were recapped during the month. A supply of pipe fittings was received from Casa Grande for the completion of our water line. We hope to report the completion of this project at an early date.

Accidents. KaNaPa Atencio, our female Navajo laborer, injured her knee by falling on one of the walls during stabilization work. First aid was rendered by Ranger Mahan and she was taken to the doctor at Farmington for treatment. No time was lost by the employee and the wound healed quickly.

Maintenance, Improvements and New Construction. Drainage at drinking fountain was corrected by the installation of a 2-inch line to carry away the waste water. Three road signs were brought in and are receiving a new coat of paint. Much was accomplished on weed eradication during the month.

Ruins Stabilization. This project has been carried on in a hightly satisfactory manner, with the main portion of the work being concentrated on wall capping and drainage and waterproofing of the roof of the Great Kiva, which job is about 90% complete. A report on the season's stabilization will be mailed to your office at the close of the project. It was necessary to build a new baffle base, insert new flashings, re-roof with felt and asphalt and cap the copings with bitumuls on the Great Kiva. We are badly in need of some Zone heavy duty roofing to complete the job.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 445; travel year to date, 1795.

Weather. June was probably the driest, hotest and windiest month the monument has experienced for many years. Following an unsually dry winter, the lack of moisture and high winds created a critical fire situation in the forest. Emergency fire condition prevailed throughout the month. Highest temperature was 98, highest wind velocity, 52 m.p.h. and lowest humidity, 7½.

The drought connected with the unusually heavy Army use resulted in a complete breakdown of our approach road. Dust holes became so deep that cars were forced to pull through them in low gear; all same "mud hole."

Administrative. The custodian spent considerable time in conference with Army officials relative to the Army Engineers taking over the Lodge. A conference would be held with one group and all angles discussed. Next day another group would show up and the whole business have to be gone over again. Regional Director Tillotson, Assistant Superintendent Maxwell, Associate Regional Architect Bennett and the Custodian met with Colonel Ashbridge, Major Stevens, and an Army Engineer's appraisal officer in appraising the Lodge buildings and their conditions. The custodian spent two days with Army auditors making a property check of all property in the Lodge and making separate inventories of Park Service property and Operator's property. Conferences were held at various times with various representatives of the Army Engineers representing the following specialties:

1. Electrical Engineers
2. Water Experts
3. Sewage and Plumbing Experts
4. Refrigeration Experts
5. Heating Experts

6. Building and roofing Experts.
7. Audit and finance
8. Housing Committee
9. Recreation Committee
10. Communications Expert

For the first time the custodian realized what an expert he is. We had bee caring for all these little details for years, little realizing we were doing anything out of the ordinary, but it now appears that all these little chores re quire experts and specialists. So there you are! Q.E.D.

Park Inspections. Regional Archeologist Reed and Archeologist Steen from Santa Fe inspected the ruins and ruins stabilization project May 28 and again on June 21. Regional Forester Carlson inspected fire protection facilities and pro jects on June 25. Engineer Hamilton came on June 21 to assist us with water pro blems. Regional Director Tillotson, Assistant Superintendent Maxwell and Asso- ciate Architect Bennett inspected the area on the 9th.

Maintenance, New Construction and Improvements. Last month the wiring in the museum failed. With the help of an electrician from Santa Fe, our force re- paired the damage. The trouble was found to be in the main circuits under the stone and cement floor. The old circuits were abandoned and new circuits were installed overhead, utilizing BX which was on hand. After the war, these temp- orary circuits will be replaced with rigid conduit.

On June 9 we discovered our water tanks were dry. Three days of digging re vealed the break. One night was spent repairing the refrigeration system in the Lodge and getting started in time to same 1000 lbs. of meat for the Army. The chlorination system required a day's work before it would function again. Ligh ning burned out our underground telephone cable system. The damaged leads were located in Residence #2 and repaired. Apparently the ground became so dry our lightning arrestors didn't function.

While not engaged in fire suppression, our fire guards were busy on improv ing our fire protection facilities. The section of emergency telephone wire fr headquarters to the South mesa was taken up, poles set, and overhead wire place Fifty-two miles of fire trails were cleared and repaired. Twenty-nine man days (not by the custodian) were spent on fire training. Signs were posted on trail in the Lower Frijoles. Our faltering telephone line to the checking station an lookout and the stub line to the Forest Service line was rebuilt. In all, 9 miles of line was overhauled, 75 new poles set, 100 poles were stubbed with hea cedar stubs, all line was brushed out, new insulators installed and the line brought up to standard generally.

A per diom crew cleared all the weeds from the ruins and repaired some fen on the Otowi Section. The Soil and Moisture crew completed the repair of the west boundary fence.

Activities of Other Agencies in the Park. For some months, the Army Engineers have been negotiating for use of the Lodge to house personnel connec with the nearby Los Alamos base. On June 3 Mrs. Frey signed a right-of-entry allowing the Army to occupy the quarters. Superintendent Richey signed a simi right-of-entry a few days later. A staff was moved in June 7 and personnel be occupying the Lodge June 12. At present, about 50 persons are housed here and perhaps double that number will eventually be quartered in the canyon.

Under the temporary set-up, we are obliged to furnish the Army with power, water, sewage disposal, garbage disposal and maintain buildings. Keeps us bus to some extent.

Interpretation. Two hundred and seventy-six people were guided through t ruins in 45 trips. Twenty-two museum trips were conducted. Time spent in

interpretive contacts: Ranger Eden, 6-3/4 hours; Ranger Hendron, 12-3/4 hours; Ranger Kendall, 33-5/6 hours; and Custodian Thomas, 20-1/2 hours.

Research and Observation. Stabilization work on group M of the Cliff Dwellings was launched by Ranger Hendron on May 31. Due to erosion of the cliff at its base, the cliff was overhanging in spots and, in the event of a fall, masonry walls in caves above would have fallen and been destroyed. In order to brace these original walls, it was necessary to excavate five rooms at the base of the cliff to determine the nature of footing. In a few cases, footings were not adequate. Two new walls were constructed and two firm walls were built up with concrete mortar and filled with mud mortar. Pipe with screw flanges on both ends was used as direct support for upper masonry walls in some cases. The job appears to be successful and should hold for some time to come. Three weeks were required to complete the job. Excavation of these five rooms will add information to the story at Bandelier. These sites were never excavated before and from the general appearance of the artifactual materials, the occupation seems to be late and extends well up into the Hispanic period in New Mexico. It is thought that a great deal of interesting information can be derived from the findings.

Forest Fire Protection. Our fire suppression squad was busy during the week June 19 to 26. We were called upon to suppress two large fires on the Santa Fe National Forest because Forest officers were busy on firest at other places. We had one lightning cause fire on the monument that burned 2.1 acres before being brought under control. This fire was seen to start by the lookout but spread so rapidly that 32 men were necessary to corral it. We caught it just in time to avert a several thousand acre blaze in the blowdown area.

Fire danger has been extreme through most of June and only constant watchfulness on the part of lookouts and quick work by our guards have saved us from disaster. The Forest Service had 12 large fires on the area close to Bandelier, one of which is reported to have burned 6000 acres on June 9.

Accidents. Veronico Roybal, Fire Guard, suffered a painful but not serious accident when his axe glanced and struck his knee cap. Formal report was sent to your office.

Personnel. Seasonal Ranger Kendall entered on duty June 1, 1943. We had great difficulty in securing a lookout for the season, but finally persuaded Mrs. Kendall to take the job. She has been making good as have women in men's jobs throughout the country. "Judy" Eden was on annual leave 5 days and took 16 days leave without pay. She visited with Jim during his leave at Cleveland, Ohio, and Providence, Rhode Island. Judy is making such a satisfactory ranger, Jim will have competition getting his job back after the war.

CANYON DE CHELLY, by Ted C. Sowers, Acting Custodian.

Visitors this month, 71; travel year to date, 271.

General. S. Joe Thomas, Virginia and Ronnie arrived May 28 to live in Chinle while Joe acts as Seasonal Ranger for de Chelly. On June 22, Meredith Guillet, Emma and Danny arrived and were welcomed as the new custodian for Canyon de Chelly.

Weather. The lowest temperature for this month was 39° on June 16 and the highest temperature recorded was 94° on the 17th. The temperature has ranged in the high 80s and low 90s for the entire month, with a strong wind blowing most of the time. This helped cool things off. The country needs rain badly and in spite of Navajo chicken pulls, which they claim will bring rain, there is no

relief in sight. (After this report, there was a small shower in the afternoon)

Visitors. Travel has suddenly increased, bringing 71 visitors to the Canyon. Thirty-six visitors arrived in ten cars from Arizona; 21 people arrived in five cars from California; 2 from Colorado in one car; 4 from New Mexico in one car; 6 from Utah in one car; two from Kansas in one car and one written request was received from Nebraska. Have learned not to ask the innocent question "Wher or how do you obtain your gas?" as most of the time the answer is, "It's none of your d... business!" No war reaction to report.

Guide and Contact Service. Total contact hours, 35-1/4 hours. Sowers, 32-3/4 hours; Thomas, 2-1/2 hours.

Administration and Maintenance. Praise the sulphuric acid and the cyanide eggs --- de Chelly is at last free of Mexican chichen bugs! Joe reported for du on June 1 and was promptly utilized for help in fumigating. The only crocks tha could be obtained were battery cases donated by Indian Service. These served their purpose well. The water and acid were mixed, the eggs placed in paper bag and then the cases were distributed throughout the house. All vents and fireplaces were blocked. Then a mad dance resulted when the bags were lowered into the acid mixture. The door expanded suddenly when two bodies went through in a hurry. Anxious faces peered into windows to watch the reaction, but disappointment resulted as not a darn thing happened, not even a wisp of smoke. Danger signs were posted on all doors and after 36 hours, the house was opened and aire The same process was repeated in the double garage and tool room. Thus ends the "bug situation" we fervently hope. Wish we could help Doc Gipe with his bugs.

On June 1, Tom Davis arrived for his survey for Soil and Moisture on While House and Antelope House. Larry Freeman and Teddy Draper were hired as helpers with Joe and the custodian helping when needed. Due to the strong winds in the Canyon hindering Tom's work, the survey took longer than expected.

Had trouble with the dump truck, USDI 1227, and discovered the touble lay the dirty gasoline tank, gas line and carbureter. Cleaned all these and also welded a small piece to the push rod for necessary length. On a return trip fr Gallup, an outside duel-wheel tire blew out. Upon examination, found it has blown out on an old vulcanized spot. Am expecting new tire and tube soon. Grea all automotive equipment during the month.

One day was spent on road work, filling the major chuck holes. This was d on the lower end of the road leading to the rim. Much more work needs to be do and wish there was a maintainer for this purpose.

The shelves have been completed in the hogan and are holding the archeological material. Also cleaned up the pump house and placed barrel of gasoline on rack.

Spent time on general pickup around headquarters along with trimming trees and hoeing weeds. Joe went into Gallup to pick up liquid for fire extinguishers which have been checked and filled. He also brought back about 75 gallons of gasoline for Tom's work in the Canyon.

A break in the water pipe made it necessary to dig up the side yard and sn strip in the back to locate the various leaks. The entire length of pipe was rusted and in bad condition. It will be necessary to lay new pipe. Due to the excess moisture, no wonder the trail planting of Indian corn was so successful.

Projects for the ensuing Month. Acquainting Meredith with the features o Canyon de Chelly and also meeting the local people. Cleaning the sewer line, installing new water pipe, completing the multiplex and waterproofing the hoga with asphalt.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 600; travel year to date, 4,400. Two thousand four hundred one year ago for this month. Too bad, but it cannot be avoided. The first thing to do is to "slap the Japs and mop up the Nazis."

Weather. The weather has been hot and dry throughout the entire month, rain falling only in small spots in the vicinity, possibly about one-fourth inch in this spot. The lowest temperature recorded this month was 60° and the highest, 88°.

General. General conditions in the surrounding neighborhood are fine. Cattle and sheep are doing well and grass is holding up good, considering the lack of moisture.

Roads on the monument have been kept in good condition, have been well maintained all through the month. Although recently some chuck holes are appearing, showing signs of dry weather, and some soil will have to be hauled for filling and mixing with the cinders for binder.

During June, culverts have been cleaned of rubbish, road maintained, grass and leaves have been removed from the campfire places. Camps have been cleaned and cans and other trash hauled away. Two large washes in the road have received their final filling and ditches near the cattle guard have been cleared for a much hoped for spring rains. The cattle guard has been repaired and some fence on the south boundary line has been straightened up and restretched.

Flora and Fauna. Flora got a severe setback in May and has not yet fully recovered. A cold snap got the early buds and this is believed to be the cause of the lack of our usual beautiful flowers. They are very scarce this season. There are only a few blue bells and blue bonnets this season.

Porcupines appear to be under complete control, although there are slight signs of one or two, but no noticeable damage. The deer have scattered to the foothills for the raising of their young. Squirrels seem to be more plentiful than ever before.

CASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 535; travel year to date, 6489.

Weather. We had what will undoubtedly be our last cool spell of the summer during the second week of June; maximums are now ranging from 109 to 112 and the nights are definitely warmer. High for the period was 112 on the 18th; low was 51 on the 5th. Precipitation totaled an unmeasurable trace -- this phenomenon occurred on the 10th.

General. The evening of June 6, the Tucson Daily Star called to report a forest fire on the Rincon Mountains. Custodian Bicknell put in calls for Manning Camp and Santa Fe, and acting on instructions from Superintendent Richey left almost immediately for Saguaro National Monument. The next morning a call came for reinforcements and Ranger Guillet and Mechanic Stonehocker left to join the fire fighters. Stonehocker returned the night of the 8th for more equipment and office supplies. Very little was heard from the men of the monument until the end of the following week when they began to drift in, looking somewhat the worse for wear. Guillet returned the 16th, Stonehocker the 17th, and Bicknell the 19th, with Superintendent Richey who made an inspection of the monument and utility area. Stonehocker delivered USDI 1221 to Saguaro on the 18th. On the 20th, Bicknell drove Richey to Tucson to make connections with a train for Santa Fe.

Batos Wilson came through Casa Grande on his way from Saguaro to Organ Pipe on the 21st, driving his "new" pickpu USDI 2731.

Going back to B.S.F. dates--the discrepancy in gasoline on hand and gasoline as shown on the storehouse cards here and in Santa Fe was found to be due to bookkeeping errors rather than tank leakage, and on the 27th of May the trench around the underground storage tank was filled in. (Not without some growling on the part of the custodian who felt that uncovering a gas tank was a very strenuous method of discovering mistakes in posting)!

The four back-pack pumps brought from White Sands for Montezuma Castle were in poor condition. Regional Forester Carlson condemned two of them when he was here the last of May.

The chlorinator loaned us from Petrified Forest was installed and we think it is doing the work on our water system from the test we made. A water sample has been sent to the State Laboratory.

Other equipment received included an electric motor from Platt, naile from R.D.A., Waterloo, Iowa, one section of five steel lockers from P.W.A. in Phoenix and part of a shipment from Tuzigoot (Alabam hasn't yet delivered the fence post driver).

All tires and tubes on the March 14 Declaration of Surplus Property were ordered shipped to the Procurement Division, San Francisco. Three days were spent bundling these for shipment.

No reply has been received from the County Treasure to our letter regarding county revenue.

Two buds on the Night blooming Cereus west of the museum opened the evening of June 5--a day ahead of the earliest previous recorded blooming date for this species here.

The young mesquite trees between Compound A and the residences are being attacked by some type of insect; signs of the infestation appeared suddenly and are alarmingly numerous. Assistance has been requested from the Regional Forester.

Maintenance and New Construction. Four days of painting were done in the shop area and on residences. The large road sign from the Sacaton Junction was repainted, but has not yet been replaced.

Posts were set along the entrance road where openings in the creosote and salt bush cover had tempted late evening visitors into driving off the road; we suspect these visitors were attracted more by the seclusion of our desert than by our prehistoric ruins.

As suggested by Naturalist Steen, the baskets in the modern Pima room of the museum were rearranged; maps of the prehistoric canals and Salado migration routes made by Guillet were installed in the cases of the Archeology room.

Use of Monument Facilities by the Public. A total of 65 hours, 41 minutes was spent guiding 319 visitors through the museum and the Casa Grande. Seventy-four trips to the ruin were made with an average of 37.2 minutes per trip; 55 tours of the museum were made with an average of 21.6 minutes per tour. Of the 319 visitors, 222 went through the museum. Tickets sold totaled 204; passes issued to military men totaled 43.

Visitor Reaction. There is a noticeable tendency to spend more time in the cooled museum and less in the ruin now that the weather is really hot; another visitor reaction traceable to the weather is the decided trend toward the shady side of the building--the visitor is invited to admire the exterior of Casa Grande from the west in the morning and from the east in the afternoon.

Personnel. We lost ranger Meredith Guillet this month when he received his appointment as Custodian of Canyon de Chelly National Monument. We were very

sorry to see the Guillets leave, but the transfer will be almost like going home for Meredith who grew up in the Four Corners region. The Guillets left Casa Grande on the 21st. Mechanic Stonehocker returned to duty on May 31. The Gipes brought their pickup down from Tonto for attempted rejuvenation on June 2.

Ranger Brewer plans on taking annual leave the first part of July to meet J. W. Brewer, Jr., CM1/c, USNCB, in Chicago on his pre-embarkation leave.

Projects for the Ensuing Month. In the absence of a ranger, the custodian expects to spend most of the first part of the month doing guide and office work. The pack-back pumps stored at this area will be repaired.

CHACO CANYON, by Irving McNeil, Jr., Custodian.

Visitors this month, 149; travel year to date 287.

The visitors this month at Chaco Canyon totaled 149. They came in 53 cars from Arizona, California, Colorado, Oklahoma and New Mexico. Of these, 29 were inveigled into seeing the ruins. They formed 9 very interested parties. All but one party were on other business and stopped by enroute, and nearly all plan to return and bring their friends and relatives after the war. Ranger Collier spent two hours and fifty minutes on guide duty and the custodian three hours and five minutes.

The weather has been very agreeable for the entire month. On six different occasions, there was a little rain which totaled 1.38 inches for the month. The coolest for the period was 32° on the 16th of June and the warmest was 98° on the 24th.

Seasonal Ranger Collier arrived on the 30th of May, and reported for duty June 1. He is a very versatile fellow and has made a success of every job assigned to him from showing horses to working over the files.

The ruins stabilization program at Chaco is progressing very well. Some rock wall has been build in the Great Kiva at Chettro Kettle, and 72 loads of earth have been hauled in and spread and packed. In the smaller Kiva, 48 loads have been hauled in. Each load is more than two yards, so the crews have not been loafing.

The great news at Chaco this month is the finding of a cache of beads in the Great Sanctuary at Chettro Kettle. Ranger Collier discovered them during his second day on duty. Those beads on the surface were very carefully removed and then an SOS sent to Charlie Steen. Every time the mail came in after that, there was a mad scramble to see what he had to say. Finally, word came giving permission to poke about a bit. One of the men dug deep and discovered a bright, shiny object. With great excitement, it was brought to the surface, but it proved to be a piece of tinfoil. Nevertheless, there were 2,061 beads in the find, and they add to the interest of those on duty in describing the wonders of the Chaco.

For several weeks the neighboring Navajos had been warned about permitting their stock on the monument. Now that there is a ranger, the custodian has time to do a little riding. One day recently, he went out and rounded up all the stock to be found on the monument, several bunches; and next day got up early and drove them out of the country and returned at seven in the evening. The following day, two Navajos were seen tracking their horses. They had a long and devious route to go before they ever found them--not many horses seen lately on the monument.

Custodian Cal Miller and son, Joe, were monument visitors on May 28 and 29, to borrow the tires off the Chaco pickup. It was a pleasure to have them, but everything was hidden before Cal's arrival so that he took nothing else back with

him. Mr. Paul Reiter, Director of the New Mexico University Field School, which will not operate this summer, and two students from the University were visitors on the 27th of May. He came out to make an inspection of the University buildings, to open the administration building, and turn the water on for the use of the seasonal ranger. Their visit was enjoyed very much.

Besides the ruins stabilization work and routine office work, many odd jobs have been accomplished this month, such as grading the roads several times, repairing the telephone, putting the second water tank in place, cleaning and opening a cattle guard which had not been used lately, building trails and the like.

With the warm still days, it is a pleasant thought to know the fire crew is now trained at Chaco and is awaiting the first fire of the season, but hoping it does not occur. The fire tools are all sharpened and greased and the canteens and back pumps are filled.

The a pproach roads to Chaco have been worked recently. In fact, the neighbors and the custodian took turns about in keeping the grading crew overnight. So there is now a good road all the way from Bloomfield to the Gallup-Albuquerque highway--we'll be looking for you.

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month, 310; travel year to date 2224.

General. The custodian was absent from the area from June 7 to 19, inclusive, attending the fire works at Saguaro. Chiricahua is considered a fairly rough country, but considering the transportation of food and men over the pebbles at Mica Mountain, we can consider this region level land. With a little luck we were able to save the Saguaros. However for a time it looked like it would be necessary to back off and back-fire from the bottom.

Maintenance. Roads and telephone lines with the finishing of backsloping of the barrow pit in upper Bonita consisted of the major accomplishments for the month. A shower of .32 inches necessitated cleaning some gutters. The fire season and the dryness of the region necessitate close attendance at the phone and office from a protection point of view. Until rains wet this region, it will be impossible for at least one of us to be away from the phone during the day, this shall allow more time to catch up on the office routine and a rereading of the many memorandums and orders received.

Visitor Reaction. Thirteen percent of the visitors arrived by horseback. This is the largest percentage for any month to day. Nothing of an outstanding nature happened.

Wildlife. Equipment Operator Marble observed a turkey hen and eight little ones in East Whitetail. Fish observed in one evening a fox crossing the road n the utility area, a porcupine in Bonita Canyon (two trees near headquarters sho evidence of porcupine work), three deer in Bonita Canyon besides many tracks. Pete Windes observed tracks of a half grown mountain lion along the trail to Sugarloaf lookout. The Government trapper is after a family of wolves in the neighborhood that has been destroying livestock. Band Tail Pigeons are nestin in the upper regions of the monument. The plant and forage conditions are dormant due to the dry season.

EL MORRO, by George Baxter, Custodian.

Visitors this month, 59; travel year to date, 209.

Weather. June has remained dry and windy. Maximum temperature 90° on June 23, minimum 31° on June 15; precipitation .36 inch.

General. We are sorry to be late with reports this month, but were unable to get them ready for the last mail. We have been very busy trying to get the dam project completed by the end of the month. Shortage of funds has caused this custodian many worries and a lot of extra labor for himself.

Roads to the monument are as good as can be expected. Visitors more than doubled the count of last month. We had one interesting visitor here from Switzerland. He was in the United States when the war started and cannot get back.

The custodian gathered up his crew of FFFS men and rushed to a forst fire about 12 miles east of this monument on the morning of June 8. Returned on June 10 with the fire under control and everyone plenty tired.

Made a trip to Aztec on May 24 for a load of reinforcement steel for the dam. Took a day off on the 25th to do some visiting. Loaded up the steel on the morning of the 26th, then Cal and Amelia Miller invited us in to a mountain trout dinner, so we returned to El Morro that afternoon. Let us know when you are going fishing again cal!

Use of Monument Facilities by the Public. Fifty-nine visitors arrived during the month as compared with 93 for last June. They represented the following states and departments: Arizona, 10; California, 2; New Mexico, 28; Kentucky, 6; New Jersey, 3; Rhode Island, 2; Indian Service, 8. Total time spent in interpretive service, 21 hours 50 minutes. Personnel engaged in guide service were George Baxter, 15 hours, 45 minutes; Hazel Baxter, 35 minutes; Obie Worthen, 5 hours, 30 minutes.

Maintenance, Improvements and New Construction. The Soil and Moisture crew finished up their work on June 2. This work put us behind on the dam project due to the shortage of labor, so it has kept us rushing all month trying to get the work completed.

Dug up and lowered 213 feet of pipe line from the water pool. Dug trench and installed pipe line from residence to ranger cabin site. Made several trips to Gallup for cement and lumber for dam. Also made one trip to bring out cement mixer borrowed from the Indian Service. Built forms for dam and have run part of the concrete.

Starting excavating for a cellar and when three feet down one of the Indians dug into what might be a burial. We stopped excavation on that part of the cellar, much to the relief of three Navajos.

Projects for Ensuing Month. Visitors and office work will occupy a lot of my time. I will try to find out if there is any way in the world to buy some gasoline. If not, we'll soon be walking. Clean up of dam project. There are still many signs to bring in and repaint.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 28; travel year to date, 276.

Continuing and Routine Projects. Waxed floors of kitchen, hall and bathroom. Much time while at the monument this month was concerned with the tracing out of the ancient water systems and some work was accomplished on the historical statement. One day was spent in posting the monument area against picking up dead or live rabbits, rodents, etc., as there is some kind of an epedemic among those animals. One Hundred and eight Kodachromes were cleaned and mounted for the

Naturalists' staff. Repainting and remounting of approach road signs was commenced, mostly when going and coming from Mountainair on weekly trips. One trip was made to check with the ODT on certain matters in Albuquerque and on to Santa Fe, where I received notification that I was against assigned to special duty with the Region Three Office and Headquarters. Continued on special duty the remainder of the month. Although one Sunday was spent at Bandelier with Associate Naturalist Dodge on fire control.

Projects for ensuing Month. Complete a number of things previously mentioned and continue on routine matters which have fallen behind.

HOVENWEEP, by T. C. Miller, in Charge.

Visitors this month, 22; travel year to date, 84.

This area was inspected on June 21 and I was surprised to see that 22 visitors had signed the register since my last inspection. Of the above number of visitors, 11 were from Colorado and 14 were from Utah. Apparently they arrived in 6 cars. The roving ranger will take over at Hovenweep and Yucca Hous at an early date.

MONTEZUMA CASTLE, by Homer Hastings, Custodian.

Visitors for the month, 210; travel year to date, 1821.

General. Summer has arrived! Temperatures of 100° or better have been recorded for the past ten days. Beaver Creek is dry in many places. The Davis Pool with a depth of from four to six feet is proving a major attraction. Several parties from Camp Verde have made use of the picnic grounds and the old swimming hole. Maximum temperature recorded this month was 103° on June 17, 18, 23 and 25. Minimum temperature was 42° on June 5. Mean maximum 93.03; mean minimum 52.06. There were 19 clear days and 8 partly cloudy days.

Administration. Reports and correspondence were kept current. In response to a request from headquarters for a report on the gross revenue for Yavapai County, a trip was made to Prescott by the custodian where the information was secured from the County Assessor. The return trip was made by way of Cherry and Dewey for the purpose of checking the condition of directional signs and to determine the condition of the road. Information secured from the County Assessor on the gross revenue for Yavapai County for the years 1940, 1941 and 1942 was prepared and mailed to the Superintendent on June 2.

Seventy-eight sets of print filing cards and negative filing envelopes were completed. An additional 27 sets of cards are ready for gluing which will complete the project.

Relief was rendered to Custodian Cotter at Tuzigoot on June 8 and 9 and June 22 and 23. A final check was made of equipment cards and accountable property.

Maintenance, Improvements and New Construction. Bedroom floors in both residences were cleaned and given two coats of developer. Living Room, hall and both bedrooms in Residence #1 were cleaned and re-kalsomined. The sink drain in Residence #2 became stopped up. A trench was dug at the point indicated on the master plan where the drain was supposed to connect with the main sewer. The drain was not located so it was necessary to tunnel under the foundation of the house and trace the drain from the sink to the sewer. The waste matter which was

causing the trouble was removed by a sewer auger borrowed from the school district at Camp Verde.

The Relief Ranger's truck, USDI 2950, was taken to Clarkdale where the following repairs were made: Carbureter overhauled, new motor mounts installed, new clutch installed, motor wiring checked, shorts taken out, batter cables replaced, steering adjusted, new spring stud installed, brakes adjusted and a new fuel line installed.

A load of poles removed from the restoration at Tuzigoot was brought to the Castle for use as firewood in the picnic area.

Guide Service. Total contact hours, 61.25; Reed, 23.50; Hastings, 37.75. Ruins trips, 42 for 140 visitors; museum parties, 41 for 136 visitors; Information service for 41 visitors.

Use of Monument Facilities by the Public. Total cars, 61; Arizona cars, 47; total states represented, 14. Total visitors, 210; number of tickets sold, 114; total revenue received, $32.22; number of armed forces admitted free, 5; children admitted free, 21 of whom 10 were taxed.

Accessions. A very old and possibly one of the first photographs to be made of Montezuma Castle has been donated by Miss Emma Dutcher of Prescott. The picture was made either in 1893 or 1894. Miss Dutcher is not positive which date is correct. Negatives will be made of this and other old prints which were loaned by Miss Dutcher. Prints will be made from old negatives in her collection. These will be added to our photographic file.

Natural Phenomena. Custodian Hastings reports difficulty with bugs believed to be Triatoma (Hemiptera - Reduviidae). Apparently these bugs are known also as Assassin Bug, Chinese Bed Bug, Cone Nose and Western Bloodsucking Conenose and as Custodian Gipe reports "Bellus Bug" or "Walpi Tiger". A paper on these insects by Dr. Lawrence Paul Wehrle was received from the University of Arizona. Twenty-one specimens have been captured on this monument during the past two months. On several occasions, the Hastings children have been bitten and since about June 1, one of the children has been running a low fever which is believed to be the result of the bites.

Projects for Ensuing Month. Dismantle pump, remove sucker rod from well and install new leather valves. Bugproof residences to exclude Triatoma. Refinish living room and one bedroom in residence #2. Refinish stakes on nature trail. Cut weeds on parking area.

NATURAL BRIDGES, by T. C. Miller, in Charge.

Visitors this month, 42; travel year to date, 89.

An inspection of this monument was made on June 22. The visitor register showed that 12 cars containing 42 people had visited the area between October 23, 1942, and June 22, 1943, with travel by states as follows: Arizona, 2; Colorado, 4; Florida, 1; Idaho, 3; Indiana, 1; Kansas, 1; New Mexico, 1; New York, 1; Oklahoma, 1; South Dakota, 1; Utah, 25; District of Columbia, 1. This section of Utah is exceptionally dry at this time. A portion of the visitors' trail is washed out and ranger's tent, rest rooms, etc., need some attention. John Wiley Redd of Blanding, Utah, will enter on duty there as Senior Laborer when the pick-up for that area has been overhauled and is ready to go. I made the Bridges trip with Mr. Redd, who has lived in Blanding for many years, and I believe that he is well qualified for the position, as he held down the same position last year.

The custodian plans to spend a few days there at an early date and thoroughly inspect the entire area and to go over the various problems with Mr. Redd when he has been assigned to duty there.

NAVAJO, by William Wilson, Acting Custodian.

Visitors this month, 15; travel year to date, 37.

Visitors. Three visitors in one car. (Total count 15 since 12 Indian Service visitors were not included last month). This year to day, 37 visitors. Dr. and Mrs. Herbert Gregory and Eugene Callaghan of the U. S. Geological Survey surprised us on the morning of May 26. This country is well known to Dr. Gregor as he was one of the first to visit the ruins hereabouts. All three went down to Betatakin. We did enjoy their short stay.

Weather. Very windy and very dry. The highest temperature was 86 on the 17th, 18th and 20th. Low was 36 on the 3rd and 6th.

Roads. Rough, as the high winds have blown all the loose dirt out and sand in. The Indian Service ploughed the sand off the big sand hill going out of Shonto early in the month. It is still in good shape. The hill coming out this way is very rough. There is another sand bank near Cow Springs but we have been detouring it, adding a couplo of miles to the distance between Betatakin and Cow Springs.

Maintenance, New Construction, Miscellaneous. The living room was given two coats of paint and the kitchen walls washed. The woodwork on the outside of the residence was given a coat of linseed oil and umber. The hole for the gas tank is now ready. I made a trip to Navajo Mountain for powder, fuse and caps. It is extremely dry over there. Even the sage brush is about to give up. Some time was spent in Betatakin Canyon getting rid of tent caterpillars in the aspen and birch. To Betatakin several times and to Keet Seel once. No signs of trespassing or vandalism at eithor place. I will go to Inscription House as soon as we get some more gasoline. Since it is very dry, I have been making a fire patrol every day.

Projects. The usual maintonance and office work will be kept current and fire patrols as long as it is necessary, as well as ruins patrols. The gas tank and pump will be installed when they arrive.

ORGAN PIPE, by Bates E. Wilson, Acting Custodian.

Visitors this month, 4,235; travel year to date, 36,011.

Weather. Threats of rain accompanied by sultry heat, if that is possible in the driest corner of Arizona.

Travel. A 19 percent increase over last month's travel is shown by the Immigration records. This increase was caused by five hundred Papago Indians crossing the line to celebrate San Juan Day. Most of them came back in a Horizontal position.

Roads. Mr. Cox was finally able to put the grader in operation and did a good job of blading the road before wearing out a blade. Work has again been held up due to the fact that the grader is so ancient that they stopped making replacement blades ages ago. Remodeling the maulboard to fit the new blades is being done at present, and, if no other major part breaks, the road will be kept in good shape.

Work in connection with Fire Protection. Two weeks were spent on the Saguaro fire. Outside of minor losses of weight and sleep suffered by this custodian, OPC really suffered a major loss; that is, the best pickup in SWNM USDI 1259 was wrecked and burned. However, these losses were counterbalanced by some good experience and a two weeks course in PESCADO'S POTENT POLICY PROGRAM.

It was good to see Bill and Ann again and their welcome home was certainly with open arms, for they were both put to work on the fire before they had even had time to check their bags.

General. There is very little that I know to report on OPC as I have spent only three days this month actually in the area. Two weeks were taken up by the fire at Saguaro and the rest of the time I have spent in the office writing ZEROS in blank spaces on travel reports.

Projects for next month. Most of the time will be spent on the temporary building with time out for routine patrols and one trip into the Big Ajo Mountains to continue the Bighorn check.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 822; travel year to date, 4,510.

Visitors. We have had 822 visitors this month who arrived in 161 cars, of which 36 were instate, 38 outstate, and 71 were Army vehicles, and others, 16. Six hundred eighty-seven of the 822 visitors were men in uniform.

Guide time, 9 hours, 15 minutes. John Peavy, 3 hours; Margo Peavy, 6 hours, 15 minutes.

Most of the visitors this month came with the express purpose of fighting forest fire. A greater number of the visitors were Negro troops from Davis-Monthan Field who came to our aid.

On Sunday, June 6, Hank Duffield and I were getting ready to pack another load of hay up the mountain from the X-9 ranch when we spotted smoke rising from the vicinity of Manning Camp. It looked like it was about a half mile below the camp. Several cowboys were immediately dispatched to the fire and in the meantime Lookout Hendrickson tried to suppress the fire but was outflanked. By the time the first fire fighting crew arrived at the scene, the fire was raging out of control. However, fire-fighting attempts were made until I could get reinforcements to the scene the next day. I brought in 30 Negro soldiers from the Converse side and had Bob Taylor lead in 30 under Lt. Kelly from the X-9 ranch.

When I arrived with the soldiers in tow, July 7, at 12:30, I was just in time to prevent the fire from burning Manning Camp. As soon as the camp was again rendered safe from fire, I walked to the lookout tower and contacted monument headquarters on the radio. Superintendent Richey was there at the time and we discussed the situation and immediate needs. I stayed in the tower all that night and next day, dispatching men at hand to the most dangerous sectors by telephone from Manning Camp.

On the night of the 6th, Custodian Bicknell of Casa Grande arrived at headquarters. Superintendent Richey, Regional Forester Carlson and Ecologist Ratcliff arrived in Tucson by plane early on the morning of the 7th. Superintendent Richey took over organization and supply in Tucson

On the morning of the 7th, Ranger Guillet and Mechanic Stonehocker arrived with additional tools and supplies. Chief Clerk Cox, Chief Ranger Brown and

Ranger Kennoy arrived in Tucson by plane about noon of the 7th. The prison camp crew consisting of 30 inmates and Superintendent Meade arrived on the morning of the 7th. They had walked up the Italian Trail. As soon as they were fed and had rested, they started to fight the fire. During the night of the 7th, Messrs. Carlson, Ratcliff, Wilson, Guillet and Fish reinforced us on the fire. At 4:00 A.M. on the 8th, District Ranger McPhaul and Lloyd Harris of the Catalina District arrived to help. During the night of the 8th, technical reinforcements arrived on the fire enmasse. Associate Forester Thede, Rangers Murdock, Sholly, Merrill, Robertson and Assistant Chief Forester Cook and Assistant Storekeeper Cartmill arrived by the 9th.

Two base camps were established, one at the old Rincon Ranger Station and one at the Italian Ranch. By the 9th, our organization was almost completed. Pack strings under the direction of Assistant Camp Boss Supernaugh and Foreman McCarty of the Bar AA Ranch were ascending the Taylor trail with all sorts of needed supplies.

At nnon, June 8th, Mica Mountain Tower had to be abandoned dur to the approaching fire crowning at noon. On the 9th, the tower was against put into operation and radio contact resumed. The telephone line which had burned through between Manning Camp and the tower was repaired that night. In the meantime, the Army, civilian and prison camp crews were dombating the fire on the north and east sides where it was spreading into Happy Valley.

On the 10th, radio communication between Mt. Bigelow, U.S.F.S. and then via telephone to Superintendent Richey in Tucson was established. The telephone lin to Taylor base camp was repaired so our communications were again complete and supplied and orders could be received.

We had a light rain on the evening of the tenth. I found out later that th was the only factor that checked the spread of the fire around the north side of the mountain.

On the 11th, the U.S.F.S. had their camp established in Happy Valley and wer combating the fire where it had burned across the monument boundary into the Coronado Forest on the east side of the Rincons.

A base camp had been established on the north side at the Italian Ranch unc Bicknell and Stonehocker. Fish, Duffield and Vanover and I left for that side the morning of the 11th to direct white camouflage troops in preventing the spread of the fire on that side. The troops under Major Barnes and 1st Lt. Nor arrived at about noon on the monument boundary, 4 miles south of the base camp. Dinner was served and under Forester Busse of the Indian Service, Fish, Peavy a Duffield took out four squads and fought and checked the fire on the northeast side that day.

On the 12th, the fire line was constructed, hot spotted and cold trailed t a point a half mile below the Lookout Tower where we met Fire Chief Brown and Acting Custodian Wilson.

On the 13th, more cold trailing was completed on the north side and on the 14th the Army was pulled off the job on that side of the mountain. In the meantime, a fire trail had been constructed by other crews and compltod on the south side. Fish, Vanover and Duffield returned to Manning Camp that day. I stayed on the next day and with two other men patroled the north line and arrived at Manning Camp and walked with fire time-keeper Guillet to Base Camp, arriving th at 4:00 P.M.

Since then we have been clearing up office procedure with the help of Bill and Anne Supernaugh and at present have a staff of 4 men on the mountain. It has rained lightly here for the last three days and we hope to be able to declar

the fire out in a few days.

We wish to express our extreme gratitude for all assistance received from the Southwestern Monuments, Region Three and Four and all other Park Service personnel involved. The U. S. Forest Service came to our aid immediately as did the Bureau of Prisons and all of the local ranchers including, Foreman Van Deren, Tito Castillo and R.F.C. Taylor, owner of the X-9 ranch who volunteered to drop supplies by plane at Manning Camp and who led one of the first Army groups up the mount the night of the 6th.

Raleigh Van Deren of the Tanque Verde Ranch and Fidel Rhodes of the Hathaway Ranch gave valuable help during the initial attach. Chet McCarty of the Bar AA ranch worked tirelessly in lining up pack strings while Rudolf Carrillo packed and furnished part of the horses. Horses were furnished by the Tanque Verde, X-9, Bar AA, Arizona Riding Academy, Walker Riding Academy and Indians of the San Xavier Indian Reservation. Edd Coffee, Sr., and Edd Coffee, Jr., employees of the Bar AA Ranch, Frank Escalante, Joe Castaneda and Roy Shannon also acted as packers, one of the most important jobs in fire suppression.

The Army furnished troops, food and equipment in the suppression of this fire, Unlimited praise for their splendid cooperation should be given to Colonel Lowell H. Smith, Lt. Col. Archibald W. Lyon, Major Donald P. Barnes, Major Henry R. Lyon, Major John R. Veerling, Captains Clyde O. Carpenter and Harold A. Hauenstein, and First Lieutenants Leslie H. Norins and Donald E. Gondolfi, and Second Lieutenants Albert J. Reuter and Kelly, who led the 940th Engineers and the 1872nd Engineers Aviation Battalions.

We also wish to express our appreciation of the services of Forester Paul Busse of the Indian Service, and Ranger Ed McPhaul and his aide, Lloyd Harris of the Catalina District.

SUNSET CRATER, by Phil F. Van Cleave, in Charge.

Visitors this month, 130; travel year to date, 1,835.

The entrance road to the Crater is getting to be pretty badly pitted with deep cinder pockets which should be clay filled.

Several parties recently have been staying overnight in the recreational area so that about a half hour was necessary to do grounds clean-up. One party was camping on the monument at the time I made the inspection on the morning of June 25.

Visitor use of the Sunset Crater-Wupatki road has definitely lessened in the past month.

TONTO, by Elmer C. Gipe, Custodian.

Visitors this month, 240; travel year to date, 2,355.

Eleven men from the Armed Forces were among the visitors. Thirteen states were represented, Arizona leading with 40 cars. Ninety-five people visited the ruins and 186 visited the museum. Thirty-seven were contacted at the parking are. Two people came in on a mortorcycle but were not contacted.

Personnel time. Custodian Gipe, 56 hours.

Visitor Reaction. Very little change except that many do not want to make the climb to the ruins on account of the heat.

Weather. The heat has been intense nearly the whole month, night as well as

day. It is extremely dry all over this area and several fires have been seen. A few clouds are beginning to gather over the mountains and we sincerely hope showers will develop soon.

General. The chief excitement here this month has been bugs. We have been bitten by such a variety of them that we can hardly separate the symptoms. The ruins had to be closed for several days as they were fairly crawling with some sort of small bug, later identified by Dr. Wehrle of the University, as the Mexican chicken bug (Haematosiphon inodora) closely related to the common bed bug (Cimex lectularius). They killed two baby owls, drove out the swallows nesting there, three swarms of bees and finally the "humans". Their bites and attendant itch are things you don't forget! We have screened the bed in an attempt to keep from being put out of business entirely from the bites of the "Walpi tiger-Bellus Bug-Assassin bug-Triatoma". Call whatever you like! I can think of better names than those. I could tell more about bugs, but don't like to think about them any longer. Two trips have been made to Globe this month. The first, June 4, to ship tires and the second, the last of the month, to get tank gas. Also made a trip to Coolidge to get fire tools. Blew the left front tire when nearly there and the other one was ready to blow when we arrived, so Mechanic Stonehocker loaned us USDI 1260 to get back with.

Wildlife. Nothing now in the way of birds or animals this month. A battle took place on the hillside back of the parking area early one evening, two coyotes. From the way the rocks rolled down and the volume of snarls and growls they must have meant business.

Maintenance. Not much maintenance work has had to be done this month, except raking and keeping everything well picked up that might prove a fire hazard.

Projects for the ensuing month. Will be the same kind of work as spoken of in the above paragraphs and continued work on the temporary cabin which is coming along well.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 257; travel year to date, 3,824.

General. We understand that the Superintendent and members of the Southwestern National Monuments did a very fine job of firefighting during the unfortunate fire at Saguaro National Monument. From the radio and newspaper accounts, those who attended must have had a hot time. For a short period, there was more attraction at Saguaro than here and we expected the travel to drop off more than it did.

Visitors. Two hundred fifty-seven visitors made their appearance and of these 240 were conducted through the mission ruins and museum. Total contact time amounted to 47 hours and 30 minutes. Of this time Caywood spent 20 hours, 35 minutes and Mattison 26 hours, 55 minutes.

Wartime Visitor Reaction. Visitors continue to show more interest. They stay longer than usual in the museum stating that it is the finest small museum they have ever seen and expressing hope that they may be able to return again and spend a longer time.

Library Catalog. After his experience on the indexing of the uncataloged portion of the SWNM library which amounted to some 600 titles and 2000 cards, Ranger Mattison began and completed the indexing of the Tumacacori library. Over 110 titles and 330 cards were made for this library.

Maintenance. The greater part of the month was spent on the usual

maintenance of the mission, museum and grounds. Work continued on the construction of a retaining wall across the south end of the adobe pit. The boundary wall and foundation were threatened by underground erosion caused by irrigation water from the adjoining field running into the adobe pit via pocket gopher holes. The holes, some of them three feet by eighteen inches, going beneath the wall have been filled with rock and earth. A stone and cement retaining wall nine to ten feet in height has been partially constructed about ten feet from the boundary wall. When completed a rubble fill will do away with further danger of water undermining the boundary wall. One cement box for cut off valves in the water system was poured. The well pump was thoroughly serviced. New graphite packing with waterproof grease was installed in the pump. The electric motor was oiled and cleaned. The water supply has been very low and considerable sand and air are being pumped from the well. A sand trap should be installed in the system.

Visitors. Ranger Guillet and wife were visitors on June 4.

Projects Continued. Work will be continued on the retaining wall during the coming month. Regular routine maintenance will be continued.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 217; travel year to date, 2,524.

Travel. About par for these days, down a bit from early spring, probably due to hot weather and fishing season conspiring to lure people out of the vallye.

Trends. In looking over the travel report for the end of the fiscal year, I note that, whereas total visitors slumped 48.60%, figures on re-entry vehicles are almost identical this year and last year. So we can put down quite an increase in monument use by the local folks and intra-state visitors. More striking still, is the 16.77% increase in visitors who do not come in motor vehicles. These, however, are nearly all juveniles. Data for the travel year to date show an increase in visitors in armed forces of 558.33%.

Guide and Contact Service. Museum, 24 hours; field, 15 hours, 20 minutes.

Personnel time. Acting Custodian, 38 hours, 25 minutes. Relief Ranger Reed, 55 minutes.

Special Service. On June 14, the HCWP gave a demonstration lecture at the museum to the Clarkdale Garden Club on herbarium specimens and herbarium technique.

The Acting Custodian found himself rendering a service of somewhat specialized nature to an earnest cadet from the nearby flying school. After inspecting the monument completely and attentively, the cadet told the A.C. he wanted to ask one more question about the problem that was bother him. "Can you tell me," he said, "just how I can go about buying a burro?" The A. C. stumbled over his ankles, recovered himself, then began thinking it out. The cadet left with all the advice we could muster, and in another week, we saw him again. He was beaming. "I bought me a burro," he declared, "four months old--a little bitty devil, and plenty mean. He's our mascot."

Nature Note. A heavy infestation of the Assassin Bug or Cone-nose of the genus Triatoma (T. Longipes Barber) has been noted during the last two months, and information on these pests arrived handily in the form of a reprint of Prof. Wehrle's Observations on Three species of Triatoma. We were thus able to confirm what we were beginning to suspect concerning the parasitic habits of the cone-noses. Early in June the HCWP was bitten below the left eye by a bug not

apprehended at the time, but since thought to have been a cone-nose. The eyelids swelled enormously, closing the eye completely for two days. On the third day, the lids slowly returned to normal. Considerable burning accompanied the swelling. We set about immediately to bug-proof the quarters, checking all openings under screens and doors, then inspecting house furnishings carefully. Two of the bugs were caught. The house was then closed and sprayed with insecticide thoroughly several times with special attention to the closet where closthes and linens are kept, since the cone-noses are adept at secreting themselves in folded fabrics. A report was sent to Prof. Wehrle and to Headquarters and the information was offered to the local doctor at the Smelter Dispensery.

For the benefit of others in the Park Service who may have observed these pests around, let us say that infestations are a serious business, since one can be bitten repeatedly and harmfully without being awakened, since cone-noses attack characteristically at night when the victim is asleep and their bite cannot be felt. We might add that we are not neglecting the most fundamental means of control of cone-noses, namely the eradication of rodent nests in the vicinity particularly ground squirrels, where the bugs find their primary hosts.

Projects. Progress in the dismantling of the reconstructed portion of Unit Iv almost came to a halt entirely on June 11, when a local employer came out and pirated every kid working on the project right from under our nose with a dollar and a half more than we could pay. We immediately plowed back all Antiquities funds, hoping that labor could still be employed elsewhere. Since then, the Acting Custodian has been fretting at the masonry with a 10-lb. hammer whenever the opportunity offered, and a daily stint has been instituted in an effort to clear away particularly unsightly debris and rubble from the front of the unit where visitors pass. If this area can be tidied up, the remaining rubble can be left for removal whenever funds and labor can be secured in the future, without seriously detracting from the monument's appearance. The wall, fortunately, are stripped of about 90% of the reconstructed masonry, and what remains can largely be left intact as stabilization for the old masonry beneath. So, we are not too dejected.

It has been proposed from headquarters to supply 800 feet of 2-inch galvanized iron pipe to be laid down below the tailings pond dam in a shallow installation to serve as a temporary improvement in water line maintenance. The cut-in would be made at the place where most of the leaks have occurred in the past three years. This project will depend upon the arrival of the pipe and the availability of labor at the time for completing the installation.

All weed areas on the monument were cleared during the past month. With the aid of the protracted drouth, the weed problem has been surmounted more easily this season than at any time since the A. C. arrived. And when Russian thistle wilt, bother, it's dry!

WALNUT CANYON, by Paul Beaubien, Acting Custodian.

Visitors this month, 405; travel year to date, 2,962.

General. Another month has passed without any precipitation to record. There has been many windy days, and a few freezes have damaged nearby crops.

Visitors. Of the 405 visitors, 107 were not contacted, and it is estimated that 240 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien 22; Fish, 16.

Changing Trends in Public Use, Etc. None were observed.

Activities. About 50 percent of our time was spent on the project of erecting the portable repair shop. About 25% of our time was spent on roof repair. The other 25% was spent on routine jobs of maintenance, contacting visitors, office work, etc. We spent one Sunday on a non-reportable forest fire in Shultz Pass, leaving at 4:30 A.M. Some wood was sawed.

While in Shultz Pass we noted that the power line and telephone poles cut by the CCC in the fall of 1941 still seemed to be in good condition.

Projects for Ensuing Month. Besides the routine jobs, we'll have the special one of making an inventory of the CCC materials stored here. This will take several days, if done properly. The portable repair shop is only about 25% finished as far as amount of man days are concerned. The roofs still need some tar and gravel. Paint has peeled from some of the new buildings here, but we probably won't get to that next month.

WHITE SANDS, by Johnwill Faris, Custodian.

Visitors this month, 4,731; travel year to date, 24,159.

Visitors. June shows a drop in many respects yet presents some interesting figures. Visitors for the month totaled 4,731, arriving in 844 vehicles. Of these, 2,833 were men in uniform. A decrease of 43.6% is shown for June on visitors, while the decrease in cars amounts to only 37.9% which would indicate that cars are carrying larger groups. The United States, Mexico and thirty-seven states were represented. Texas, New Mexico, Arizoha, California, Louisiana, Oklahoma and Illinois lead the states with over sixty visitors from these states. The month started with an exceptional heavy "Armed Force Use" and a special report is being sent to cover this travel. (And a very interesting report it is, Johnwill! - Ed.).

The custodian made a trip into Utah for a water tank. Ranger Steel made one trip to El Paso and Las Cruces and another to Deming on official business. A temporary ranger was employed and the household goods of ranger Knabenshue arrived. One official visit from the region brought us two officials. Weather on the whole has been good, though warm. Little rain, but lots of tries. The maximum was 100 on the 6th and 20th, with the minimum 36 on the 10th. Rainfall totaled .86 inch for the month.

My activities have been largely routine with considerable time being given to Army travel and the arrangements connected with these large groups. A special report was prepared for your office on Army travel. Some time has been spent with Ranger Steel on our inventory and checking the lists prepared by your office. We are very happy that our property is receiving this careful attention. An official inspection was made of the area accompanied by Regional Forester Carlson and Ecologist Ratcliff. A trip was also made to our Dog Canyon area in order that some specific action may be given that unit. This is the first time Ratcliff had ever been in and we were glad to have him for even the short time he was here. The Regional Forester has been here before and we were glad to have him back. We have worked over the fire tools and put in his fire boxes so Carlson should be happy for a while. No complaints from visitors have been received except on the weather and, as you know, we can do little about that.

Road maintenance has been heavy especially during the fore part of the month when dry weather and lack of a power unit made it necessary to do all the work with the little fresno again. The big carryalls sure ease the road work. No new construction of any kind has taken place.

The concession experienced one of the best months of its existence due to the heavy soldier traffic early in the month.

Guide service has shown an increase in that we have another ranger and can give more time to it. Too, visitors in large groups when all hands are on deck for contacts helps out on the total. The addition of Robert (Bob) Moore as temporary gives us a big boost. Bob is a mighty nice young chap with a Naval Reserve Pilot rating in the offering. We all hope that they will not need him until fall which seems to be the case now. Roy and Jane are somewhat settled now that their furniture has arrived. Both are liking it better all the time and Roy is making us a mighty good hand. A word on my trip to Arches might not be amiss. Mac was a splendid host, and in addition to getting a good tank and just what we need for a standby I very much enjoyed the ride up the Colorado river. Mac will likely be claiming that one reason Boulder Dam is so popular is due to the fact that it has so much of Arches in its makeup. Anyway Mac's area is very impressive and some day I would like to get in and see many of the wonder of that section that were unavilable this trip. Our hat is off to Mas as host! I hope that I can always send visitors away from White Sands as happy as Mac sent us away from Arches.

Through a loan agreement with the Grazing Service we are again in possession of a power unit with which to operate our carry-all (which is also on loan from the Grazing Service). This equipment is just the ticket for us here and we are hoping that we might be able to talk them out of it for a long time. We are certainly indebted to the Grazing Service and both Mr. Danley of the Region and Ahl of the local office have geen grand to us. It is our hope that some day the White Sands may be able to help them as much as they are helping us.

A now Commanding Officer has arrived at the Alamogordo Air Base, a Colonel Beal, whom we have not had the pleasure of meeting, although we have had several business relations with his office since his arrival.

Paul was visited by Lt. Byron (Barney) Steel, of Kirtland Field. Barney is Bombadier Instructor and sure hit the spot when he landed at White Sands. We all hope that he will come often now that he knows where we live. We all enjoyed hi visit a lot.

July we hope to continue with our road work while we have the power unit. Do some work on sewer lines, possibly a little development work in Dog Canyon and continue building maintenance as we can. All this along with the visitors we hope will arive should keep us reasonably active.

WUPATKI, by Phil Van Cleave, Acting Custodian.

Visitors this month, 44; travel year to date, 485.

Activities. Unusual activities for this month included personal interview with the weather officer of Luke Field on the 11th at Flagstaff with regard to the possibility of acting as cooperative weather station for the Air Corps. This possibility was noted and pursued by Davy Jones before he left, but as yet might be said to be in its early stages. It is hoped by the Luke Field Weather Officer that we may be able to arrange for broadcasts from Wupatki to inform them of any abnormal weather conditions prevailing in this region. The Little Colorado River Basin has been widely used for a practice ground for "hedge-hopping" and such activities by the trainees from Luke, and there is a paucity of weather data available covering this territory.

The antenna mast for the short wave set has been cured of a terrible case of

the "bends" contracted during the current season of high winds. Four spreaders were put into use so that the entire thirty-eight feet of mast is now guyed from top to bottom. Since the nineteenth, when the job was completed, there have been several little "twisters" pass over the mast causing little motion other than a slight rotation. If need be, a single guy can prevent this motion, but it is thought that the less obvious the set up, the better, hence, we shall wait to see how the present rig functions before making any additional changes.

Routine jobs were expended to include picking up of nails from the service road and parking area, filling erosion cuts in the fill of the entrance road, back-filling some of the deeper exploratory trenches on the west slope of the ruin to reduce erosion, and continuation of the project removing unsightly piles of stone from around the ruin.

Visitors. Exactly half of the total visitors to the area were contacted in conducted tours to Wupatki. Although the visitor total for the month is less than for the preceeding month, the actual visitor use of Wupatki Ruin is up about ten percent. One party of two that was here on the 12th, returned on the 15th, bringing two friends.

Navajos. Our two local Navajo boys in the Army became involved in some sort of scrap in Camp Howze, Texas. The cause is not yet known, but the result, in part, was severe. Both boys were held for 11 days pending court-martial, at which time one (Virgil Tso) was released and the other sentenced to six months in the guard house. The letters from the boys consequent to this difficulty have not only been very interesting, but also difficult to interpret for the parents.

A brush fire was investigated on the night of the 7th, but proved to be only a Navajo family preparing ground for a new sheep corral.

Surface Aerifacts. Several artifacts of considerable interest have been found in the past several weeks. Notable among these are a nearly perfect small copper bell, a round, smooth-worked obsidian nose-plug and a dozen black stone beads from a washout that measure just 1/4" when strung. Quite a number of additions have been made to the sherd collection, but many of these must await further identification before being of any great value.

Weather. Summer has returned after almost a month of unseasonably cool weather. The highest temperature recorded this year to date is 96° on the 17th, 18th and 23d. Total precipitation for the month consisted of the several drops that managed to fall on the 23d.

YUCCA HOUSE, by T. C. Miller, in Charge.

Visitors this month, 4; travel year to date, 58.

This area was inspected by the custodian on June 21. Our visitor register indicates that 4 persons from Colorado signed during the month. The fence around the monument was in good shape and no evidence of vandalism was noted. The Ismays were busy moving their sheep to the mountains for the summer.

Arizona Archaeological and Historical Society

SUPPLEMENT

The following information of interest to the field was extracted from the Superintendent's June Narrative Report for the Director.

General. June was busy and hectic. Regional Director Tillotson was on leave most of the month. Superintendent Richey was Acting Regional Director most of the time June 1-5 and 21-30. During his absence from Santa Fe on the Saguaro fire, June 6 to 21, Assistant Superintendent Maxwell was Acting Superintendent and Acting Regional Director part of the time.

During the latter part of June the closing out of the 1943 fiscal year appropriation, submission of the 1944 fiscal year preliminary estimates and extra fiscal and clerical work as a result of the Saguaro fire kept our limited force extremely busy.

Special Activities. The Superintendent was in Santa Fe June 1-3 and 5. On June 4, in company with Regional Director Tillotson, a trip was made to Albuquerque, New Mexico. In Albuquerque Mr. Richey conferred with Dr. Zimmerman, President of the University of New Mexico, Dr. Parry Reiche, Geology Consultant, and Mr. Tom Popejoy, Controller, concerning the transfer of University-owned land in Chaco Canyon for lieu federal land outside. The conference was very satisfactory and definite progress is being made toward an exchange.

In Albuquerque Mr. Richey conferred with Captain Snyder, Head, Real Estate Sub-office, U. S. Engineers, regarding the desire of the Army to take over the Frijoles Canyon Lodge, Bandelier National Monument, in connection with the Los Alamos (Y) Project. Further conferences were held in Santa Fe, June 5, and a permit to enter the lodge given to the Army Engineers on the same date.

Late Sunday afternoon, June 6, the Superintendent was advised by Custodian Bicknell of Casa Grande, by phone, of a fire at Saguaro National Monument. Mr. Bicknell was dispatched to the fire immediately. After checking on the size of the fire supervisory personnel were called and sent from Southwestern Monuments areas in southern Arizona.

The Superintendent, Regional Forester Carlson and Ecologist Ratcliff drove to Albuquerque and departed for Saguaro by chartered plane, arriving in Tucson early on the morning of June 7. Custodian Fish of Chiricahua, Acting Custodian Wilson of Organ Pipe, William R. Supernaugh, Custodian Bicknell, Ranger Guillet and Mechanic Stonehocker were either at Saguaro or arrived soon after the Superintendent.

An office was set up immediately in the Coronado National Forest office, base camps and a shuttle system of trucks established to supply the fire. Supply was critical because of large numbers of men arriving in advance of adequate food and as communications were almost entirely lacking during the first few days. The Superintendent directed the supply, coordinated cooperation of men and equipment from Davis-Monthan Field, Consolidated-Vultee, Federal agencies, the city of Tucson, and permittees.

Custodian Peavy was on the fire line continuously. Mrs. Peavy assisted untiringly with contacts in Tucson, supply, and keeping radio communications open at headquarters. Chief Clerk Cox of Grand Canyon arrived in Tucson on June 7 and took general charge of purchasing and the office in Tucson. He was assisted by Mrs. W. R. Supernaugh. They were of utmost assistance to the Superintendent.

Although most of the supervisory personnel and men were released from the fire by June 14, because of the extremely dry conditions and high winds, the fire could not be declared out at the end of this report period.

For a more detailed narrative report of the fire see Acting Custodian Peavy's report.

The Superintendent wishes to express his extreme gratitude on behalf of the Southwestern National Monuments for the fine cooperation of various Service offices in supplying men and equipment in controlling the Saguaro fire. The excellent cooperation of the Army, Federal agencies, the City of Tucson, permittees and local people in the Tucson vicinity deserves special mention.

The Superintendent stayed in Tucson until June 19 to clean up certain details and work pertaining to the fire. Inasmuch as train reservations could not be obtained until June 20, a short inspection was made of Casa Grande National Monument with Custodian Bicknell before returning to Santa Fe.

In Albuquerque June 21, Captain Snyder of the Army real estate board was contacted regarding arrangements being made by them to take over the Frijoles Canyon Lodge, Bandelier National Monument.

Personnel.

Appointments

Robert Edward Moore, Park Ranger (Seasonal), White Sands National Monument, effective June 1, 1943.

Simon Joseph Thomas, Park Ranger (Seasonal), Canyon de Chelly National Monument, effective June 1, 1943.

John Jay Collier, Park Ranger (Seasonal), Chaco Canyon National Monument, effective June 1, 1943.

Arlie L. Kendall, Park Ranger (Seasonal), Bandelier National Monument, effective June 1, 1943.

Edward L. Ladson, Park Ranger (Seasonal), Yucca House and Hovenweep National Monuments, effective June 3, 1943.

May Appointments Not Previously Reported

Henry Cowie Duffield, Junior Fire Guard (Seasonal), Saguaro National Monument, effective May 1, 1943.

John Roscoe Hendrickson, Junior Fire Guard (Seasonal), Saguaro National Monument, effective May 18, 1943.

Change in Status

Henry Cowie Duffield, Junior Fire Guard (Seasonal), Saguaro National Monument to Assistant Fire Guard, same area, effective June 1, 1943.

Separations

John Roscoe Hendrickson, Junior Fire Guard (Seasonal), Saguaro National Monument, effective close of June 15, 1943.

Pedro R. Gomez, Under Fire Guard (Seasonal), Bandelier National Monument, effective close of May 31, 1943.

PERSONNEL NOTES

Welcome home, Bill and Ann Supernaugh! It is great to know that Bill and Ann are back again although, aside from the fact that they both have been helping John mop up his fire at Saguaro, we haven't much news about them. However, Bill can't keep his age a secret any longer as the arrival of his thirty-eighth birthday made it necessary for the Army to give him an honorable discharge. How about a letter, you Supernaughs, so that "Personnel Notes" can tell the other fellows in the armed forces where you are and what you are doing?

Corky Jones writes in from the Museum of Northern Arizona that she likes her work very much, has a top-notch place to live, with plenty of milk, eggs, and home-made butter (yum-yum!), and that she walks a mile to work through the woods which affords her an excellent opportunity to study the birds. As a side-line she is raising turkeys and a victory garden, planning meals, and serving as food buyer for a number of people, so that she doesn't have much spare time.

For those of you who know the Millard Hennings (members of the Boss' First Families of SWNM), we report receipt of a letter stating that Ruth is much improved in health, Millard is raising a victory garden, and that "after the war" they plan to look around in southern Arizona for a place to establish a permanent home. The Hennings' address is Yakima, Washington.

We expected a lot of personnel notes to stem from the big Saguaro fire, but so far those from headquarters who were there have talked only about the hard work involved. For the benefit of you fellows in the armed forces, the fire is estimated to have burned over approximately 5,000 acres on the crest and east and north sides of the Rincons. Chuck says that the SWNM men all did outstanding work, and that he is proud of every one of the fellows. HCWP Marge Peavy was radio dispatcher at headquarters and did outstanding work during the entire fire.

Gordon Vivian wrote in to headquarters saying that he had just received a G.I. haircut and that now he understood what the pioneers underwent when they were scalped by the Indians.

Speaking of Indians: McNeil recently signed up a couple of Navajo laborers for ruins stabilization work, but had trouble recording whom to notify in case of accident because one Navajo didn't know his wife's name. Cal Miller has had as a laborer on the ruins stabilization job at Aztec Ruins a 16-year-old Navajo girl. Women in industry!

Bugs, bugs, bugs! It looks as if Ted Sowers had gotten rid of his Mexican Chicken Bugs at de Chelly all right, but he must have driven them over to Tonto as they invaded the ruins in such numbers that Doc Gipe had to close up shop for several days. Doc reports that the Gipes are so bitten-up that they look as if they had the measles. And just to give the Gipes a little variety, the famous Bellows Bugs or Hualpai Tigers have been probing such portions of the Gipe anatomy as remain unbitten by the Chicken Bugs. Jack Cotter, Al Bicknell and Homer Hastings also report unusual numbers of these insects, but the Peavy's consider being bug-bitten as just a part of a custodian's job, so haven't reported excessive numbers from Saguaro this year.

Natt Dodge and family had a rare experience when the sewer line running beneath the street in front of the Dodge residence got plugged up and diverted the flow into the Dodge basement via the laundry drain. Natt spent a busy two hours bailing while Hap frantically telephoned for help. She was finally able to get hold of the proper sewage disposal official by sending a policeman out to hunt him up. Natt says that he was about to telephone Al Bicknell who is quite an authority on unplugging sewers.

The Steen family is finally united! Last to arrive from Coolidge was Princeton, the cat, who came in by express. So far Princeton has survived the rigors of Santa Fe, reportedly a very dangerous place for cats because of the large number of commercial tamale makers who specialize on "rabbit" tamales.

Several persons have written in to headquarters stating that they had portions of uniforms they would like to buy, or sell. "Personnel Notes" will be pleased to establish a "clothing exchange" department listing uniforms or parts thereof for sale or trade. If you wish to buy or sell a Park Service uniform you may list it here. Please state size, condition, and price.

Announcement has been received of the marriage, on May 14, in Cocali, Canal Zone, of Jane Beatrice Richardson to Howard Reiber. The Reibers will reside in the Canal Zone until Victory.

Pete Shuft (Natural Bridges and Casa Grande) writes in that he is now at De Pauw University where he is giving indoctrination courses to new recruits. After units have been organized he will teach Physical Education to officer candidates. Since last heard from, Pete has been at several locations, including the Great Lakes Naval Training Station.

Headquarters tries to keep up-to-date on the addresses of SWNM personnel now in the armed forces. To do so, we must hear from you fellows whenever you change location. Would you like to have a list of these addresses appear from time to time in this department so that you may write to the fellows?

In his May report to the Director, Chief of Forestry Coffman writes, "The Region Three Fire School at Bandelier National Monument, May 3-5, was one of the most outstanding schools ever conducted by the Service. The trainees were housed and fed under fire camp conditions, and the excellent program was evidence of the careful thought given it by Regional Forester Carlson, Custodian Thomas, and other Region Three Personnel." SWNM personnel accept a share of that bouquet, and many thanks, John!

Aftermath of the Saguaro fire: Loui Caywood accuses Peavy of having set the fire in desperation as the only means of drawing a little attention to Saguaro because of the outstanding excellence of Tumacacori's attractions which, under normal conditions, completely eclipse Saguaro's pulling power!

Judy Eden recently returned from a trip east where she visited Jim. She spent a day with Hugh and Chris who, she reports, were eager for news of the Southwest and sent their regards to SWNM personnel, one and all. She indicates that, after shepherding 27 national monuments, Hugh doesn't think Chicago is such a big place after all. Jim has been transferred to the West Coast.

Thanks to Corky Jones, were able to send "Personnel Notes" last month to Bill and Gertrude Bowen at Fort Bliss. Immediate response indicated the Bowens' pleasure in being discovered. Bill (Montezuma Castle) is with an anti-aircraft unit. He says that he is fortunate in being able to live at home instead of in barracks. Gertrude is working in the finance office at the main post, but finds time for bird observations after hours.

Corky reports, also, letters from Davey who seems to write a lot about his duties on K.P. We wonder if Davey is misbehaving and is assigned to more than his share of K.P. as a punishment. Anyway, he reports helping cook over half a ton of fish and 256 gallons of hot chocolate. Davey called Corky long distance on her birthday, and she had a nice chat with him.

Lois Beaubien has gone to Denver and does not expect to be back until about August 1.

A letter from Polly Tovrea to Bina Bicknell has reached "Personnel Notes" through devious channels. It is dated Ancon, Canal Zone, March 11. Polly reports

interesting trips in the Tovrea motor boat, with several overnight excursions. On one such trip they were aroused in the middle of the night to have the boat's papers examined by soldiers as a strange boat had been spotted in the vicinity by the air patrol. Polly said that the Tovreas were mighty glad to be Americans and under Uncle Sam's wing. Polly is anxious for word from her Park Service friends and does not want to be left out on any issues of the "Grapevine". ("Personnel Notes" has replaced the "Grapevine", Polly, and you are now on the mailing list. Let us know if you don't receive it regularly. - Ed.)

Betty Budlong is reported to be in line for graduation from a nurses' training school in Colorado Springs.

Incidentally, we recently read Budlong's Ft. Jefferson National Monument Monthly Report, and are impressed with the fact that Bud still has some of the same problems he faced at El Morro. He has difficulty in obtaining good drinking water, never is able to get enough sleep, and finds the journey to the post office made difficult by too much water. Bud reports trouble in filling in Travel Report Form 10-157, especially the portion about cars, as his monument is on an island 70 miles at sea. He finds the usual difficulty in getting his monthly report in on time because mail collections are made only once a month and at highly irregular intervals.

Vince Ellis writes from Camp Beale, California, to report that he is now a sergeant. He objects mildly to Bill Supernaugh's statement about the toughest outfit, indicating that the boys in his own crowd aren't a bunch of sissies. Vince says that his work is very interesting and that he is keeping in line to return to the Park Service when the war is over. He says he now has only to serve for the duration as he has already put in his six months.

Bob Upton (White Sands) thanks us for "Personnel Notes", saying that they are very welcome and that they make him homesick for the Southwest. He reports that his status has been changed from Watch Officer to Executive Officer and that he now takes the ship out alone as the only officer on board, which is some satisfaction, although he "still has a mighty long way to go". Bob sends his regards to all the "old gang" at headquarters and in the field.

Faithful Sallie Brewer sent in some "Personnel Notes" about the time of the big Saguaro fire. Although Acting Custodian at the time, Sallie wasn't too overcome by the responsibility and sent in the notes that follow:

> With Casa Grande personnel being called thick and fast to the Saguaro fire, Teddy offered to flip a coin to decide whether he or Sallie should answer the next call for reinforcements (the next call never came so we still don't know who would have made the better fire fighter!)
>
> After Gene's hurried trip for supplies for the office being set up as fire-fighting headquarters in Tucson, Teddy missed several things, only one of which really puzzled him--he says "Seems to me a typewriter is a mighty funny tool to fight a fire with."
>
> From reports, there are several head of stock in the vicinity of Saguaro National Monument who don't recognize an emergency when they see one and were downright uncooperative about being loaded with tools and food and G.I. cans full of soup; at any rate they are given credit for scattering lots of food points over some very rough country in a very short length of time. (Ask Al Bicknell and Bates Wilson.)

Because of unavoidable delay in getting out the June report, some of the preceding items are a little old and the following are added to supplement them.

Sallie Brewer took annual leave and visited Jim who, she says, looks well, fit, and hard. He has become "a model of neatness and rumor has it that he is an expert on washing clothes by the pail and brush method". Sallie visited Chris and Hugh in Chicago and says that Hugh has quit smoking and takes his lunch to the office. She says that Chris was better informed on SWNM gossip than she was, and suggests that if we want personnel notes live up to the old Grapevine's reputation, we bring pressure to bear on Chris to contribute. How about it, Chris? You know "it is more blessed to give than to receive".

Esther Stonehocker produced one of her famous Malayan dinners recently for twenty people. This is a real achievement, especially during a Casa Grande hot spell. Sallie says that summer has finally come to Casa Grande as indicated by the following signs: Al can't keep matches dry in his pocket, Teddy Baehr has gone on night shift, and the owls have left the ruins for their annual vacation.

Addison Pinkley passed through Tucson about a month ago on his way to the West Coast. Nancy Margaret is putting in one evening each week at the Tucson railroad depot as USO Travelers' Aid. She is fully convinced that traveling these days is no fun.

PFC Davey Jones is now in Denver. He was successful in getting an assignment to aerial photography and is taking training at Lowry Field.

A letter from Polly Tovrea acknowledges receipt of "Personnel Notes" and asks that no bit of news, no matter how trivial, be omitted. She is surprised to learn that there is any travel to the monuments at all and requests a copy of the monthly travel figures. She is still working in the newspaper office and says that Tov, too, is plenty busy. The Tovs send regards to all.

Headquarters personnel now bring their lunches to the office and take half an hour to eat them, thus getting off a half hour earlier in the evening to work in their victory gardens. Some competition has developed between the Maxwells and the Dodges as to which has the largest tomatoes. Skeptic Earl Jackson questioned that either had any, so Regional Engineer Lassiter visited both gardens and reported that Dodge had the biggest plants but that the fruits on the Maxwell vines were superior.

As recorded in the de Chelly report, Ted and Cecelia Sowers were at headquarters when Ted came to Santa Fe for his Army physical examination. The Sowers have since been reported upon from Casa Grande and Saguaro. Ted and Cecelia are most obliging folk and do all sorts of errands and carry messages for people in their journeyings from monument to monument.

Jim Eden writes, "I was shipped out of Camp Endicott on June 23. I saw Jimmie Brewer a few moments before leaving. I expect to be in training here, Camp Parks, California, for a while and then 'quien sabe'. Best regards to all the NPS gang."

Alison Steen is beginning to find her way around in Santa Fe, but in doing so she got lost and caused considerable excitement for a few moments. She apparently enjoyed the fuss for a day or two later she shoved a button up her nose and became the center of attraction once again.

Homer Hastings filled out his Employee's Withholding Exemption Certificate as follows: "One wife only, and two children." This is the first intimation we have had that Homer thought himself under suspicion of bigamy.

Aggie Gastellum writes from Fresno that Luis' transfer suddenly blew up after he had taken all the "shots" and just a few days before he was scheduled to leave. Luis has been busy this spring and summer, what with his victory garden, teaching English three nights each week to Mexican workers imported to relieve the manpower shortage, and playing softball two nights each week.

We are sorry to learn from the Aztec report that Mamie Mahan has been ailing and that Russ has taken her to Salt Lake for clinical examination. We hope that the trouble will soon be located and easily straightened out.

McNeil certainly is sold on Chaco! This month he states in his report, "to add to the pleasant weather, it rained several times". Just add a few midsummer blizzards and a cyclone or two and Mac would have enough material to start on a speaking tour. Incidentally, Mac's report indicates that some of his brother custodians have taking ways.

One of those Chaco neighbors is doing a little thinking, but seems to be stumped when it comes to planning. How, George Baxter wants to know, are the future custodian and ranger going to collect fees and make visitor counts when tourists hover over the ruins and inscriptions in helicopters? George is also worried over the hazard of incompetent drivers who might damage the El Morro inscriptions by flying too close to the Rock.

****

We are pleased to quote the following memorandum from Regional Director Tillotson, addressed to the Superintendent of Southwestern National Monuments:

> "I am indeed pleased to be able to hand you the attached Award Certificate, together with a copy of the Acting Director's memorandum of May 15 and Circular No. 2 referred to. With this go my congratulations to the personnel of the Southwestern National Monuments for their patriotic action toward purchasing War Savings Bonds which has made this Award possible.
>
> "Several times I have commented on the high morale and fine spirit of the employees of your organization. This is merely one additional evidence of such spirit and I know you will be glad to notify all employees of the Southwestern National Monuments as to this well-deserved award."

****

JUNE 1943 TRAVEL RECORDS

STATION	June 1943	1943 Travel Year	June 1942	1942 Travel Year
Arches	111	589	286	1434
Capulin Mountain	600*	4400*	2400*	12100*
Chiricahua	310	2224	665	4273
Natural Bridges	42	89	51	66
Organ Pipe Cactus	4235	36011	150	4585
Rainbow Bridge	5*	5*	50*	50*
Saguaro	822	4510	280	9153
Sunset Crater	130*	1835*	984*	3214*
White Sands	4731	24159	8407	33348
Total Biol-Geol.	10986	73822	13273	68223
Aztec Ruins	360	2647	777	3442
Bandelier	445	2240	660	2353
Canyon de Chelly	71	271	223	975
Casa Grande	535	6489	678	11640
Chaco Canyon	149	287	81	320
El Morro	59	209	90	345
Gila Cliff Dwellings	2*	12*	15*	25*
Gran Quivira	28	276	126	1003
Hovenweep	22	84	30*	30*
Montezuma Castle	210	1821	573	4461
Navajo	15	37	40	101
Tonto	240	2355	239	4683
Tumacacori	257	3824	372	5278
Tuzigoot	217	2524	603	4438
Walnut Canyon	405	2962	883	4682
Wupatki	44	485	179	1172
Yucca House	4	58	48	48
Total Hist-Archeol.	3063	26581	5617	44996
Grand Total for June	14049	100403	18890	113219

*Estimated Travel

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
Santa Fe, New Mexico

August 25, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

July narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Superintendent.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the entire month at the headquarters office on routine Southwestern Monuments, acting regional naturalist, and Southwestern Monuments Association activities. He gave three illustrated talks to local organizations, completed a number of interpretive project construction program proposals and aided the Superintendent in the preparation of his annual report to the Director.

Naturalist Steen also was in the office throughout the month photographing and recording artifacts transferred from museum collections at Yosemite National Park and Ocmulgee National Monument. He continued work on the report of the 1940 excavations at Tonto National Monument, prepared a number of project construction program proposals, and started to coordinate field lists of needed interpretive items with the over-all plan of interpretation for the Southwestern National Monuments.

Extension Services. The following illustrated talks were given:

49 Girl Scouts, "Desert Reptiles"
27 Sunday School pupils, "How Animals Help Us"
52 Santa Fe Rotarians, "National Monuments of New Mexico"

New or Unusual Activities. In response to a request from the Director's Office, the field was requested to submit lists of interpretive items and equipment needed at the various national monuments. These lists will be coordinated with the over-all interpretive program plan set up for Southwestern National Monuments.

Loans, Gifts, Accessions. Two shipments of Southwestern artifacts were received, photographed, and cataloged. They will be distributed as needed to various park and monument museums in Region Three. The shipment consisted of pottery, basketry and miscellaneous items of the Agnew collection at Sequoia National Park, and from the Mercer University collection from Ocmulgee National Monument. A total of 91 items were received.

Southwestern National Monuments Loan Library. An item long needed in the library, the new Merriam-Webster Dictionary, was obtained. Accessions for the month totaled 52 publications, including 10 books, 15 reports, 5 pamphlets, and 22 periodicals. A number of surplus back issues of Arizona Highways magazines were received from the Director's Office and will be distributed where needed in Region Three. Half a dozen surplus numbers of the same magazine were sent to fill gaps in the Director's Office file of this publication.

Arizona Archeological Center Library

Southwestern Monuments Association. The annual report of the association was prepared, but mimeographing and distribution were held up by the absence of the auditor who will go over the association's books and check the financial part of the report. All consignment payments for the quarter ending June 30 were paid. On July 13 a certificate of incorporation was filed with the New Mexico Corporation Commission. Several noxious insects were photographed for the association's proposed publication, "Poisonous Dwellers of the Desert".

Status of Archeological Projects. A report on ruins stabilization activities at Hovenweep National Monument was submitted by Naturalist Steen. Steen checked with Ranger Hendron of Bandelier National Monument on the excavation of a small ruin on the line of a proposed road-straightening project started by the United States Army.

Photography--Visual Aids. Museum specimen record photographs were taken of artifact accessions. Several insect photographs were taken. Three Kodachrome slides of the operator's development at Bandelier were loaned to Charles S. Gable of the Operators Division.

Reports and Memoranda. Assistance was given the Superintendent in preparing his annual report to the Director. A report on ruins stabilization activities at Hovenweep National Monument was completed.

Office Visitors. The Honorable Henrik de Kauffman, Danish Minister to the United States, visited the office for a few moments. Custodian Thomas, Relief Ranger Ted Sowers and Ranger J. W. Hendron had business with the interpreters.

Miscellaneous Overhead--Routine. Eighty-four letters were written during the report period. Stencils were cut and 500 information leaflets mimeographed for Chiricahua National Monument. Travel report forms 10-157, submitted by the field were checked before being forwarded to the Director's Office. A fewer than usual number of requests for information were answered.

Regional Naturalist Activities. A request from the Director's Office for lists of needed interpretive items and equipment was distributed to the field. Replies will be coordinated. Assistance was rendered the superintendent of Hot Springs National Park where increased visitor attendance has developed a demand for naturalist's services. Further consideration was given to studies of the deer reduction problem at Zion National Park. Comments were made on plans for a proposed contact station at Pipe Spring National Monument.

Projects Planned for Next Month. If items requested from the National Museum are received, Steen will go to Walnut Canyon National Monument to prepare temporary exhibits for the empty cases in the museum. It is hoped that some ruins stabilization may be accomplished at Hovenweep National Monument. A visit will be made to Bandelier National Monument, to check on excavation of ruins on the line of the road-straightening project being carried out by the United States Army. Dodge will make the long-delayed trip to Carlsbad Caverns National Park to meet with the Director's committee for studying the guide and public contact problem. He will spend two days en route at White Sands National Monument assisting the custodian with a number of interpretive problems which have developed there.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors for the month, 87; travel year to date, 676.

Still a drop in the travel over this month last year, but you just don't have the heart to encourage people to run their tires over any kind of road where there is a possibility of damaging one. We have had two or three hard showers back toward the Window Section this month, which did some damage to the

road. Except for these showers it has been pretty dry. The Colorado is pretty low at the present time.

Horseback and pickup patrol has been carried out during the month. Except for some attempt at prospecting, there has not been any type of trespassing.

Messrs. Olcott and Brown from the regional office and their sons were through a couple of times.

Harry Reed arrived on the twentieth of the month and will be here during my absence, while I am away to pick up the youngsters at Hurley, New Mexico. I hope Harry can remain for quite a while after my return. Lots of work to be done and there is lots of Harry to do it.

The month has been pretty full of cleanup and odds-and-ends jobs. Only found time to take one day off this month and this was to work on my personal car.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 666; travel year to date, 3,313.

General. Two official trips were made by the Custodian during the month. On July 1, I drove to Monticello, Utah, where I met Mr. John Wiley Redd by appointment, drove on to Moab and received from Custodian McKinney of Arches, truck 1220, and some small tools for use at Natural Bridges, returning to Aztec on July 2. Another trip was made on July 2. Another trip was made on July 14 to Natural Bridges, Hovenweep, and Yucca House National Monuments, returning to Aztec on July 18.

Ranger Ed Madson made a trip by bus to Coolidge, Arizona, and received truck 1254 for use at Hovenweep National Monument, leaving on the twentieth and returning on the twenty-third, bringing back some pipe for Canyon de Chelly, a motor for Chaco, and some small equipment for Aztec, Hovenweep and Natural Bridges. Travel at this monument has been fairly slow compared with former years. However, the travel and other duties have kept us very busy the entire month.

Personnel. John Wiley Redd was assigned to duty as Senior Laborer, Natural Bridges, July 1. Edward L. Madson was on annual leave July 7 and 8 because of sickness in his family. Russell L. Mahan went on annual leave July 22 to take Mrs. Mahan to a clinic in Salt Lake City, Utah. We hope she recovers rapidly.

Ruins Stabilization. Walls capped, drainage perfected and brought to completion around Kivas H and J and rooms 45 and 69. It was necessary to plate the most part of the area with bitumuls, using adobe brick made of that material, to prevent washing because of the steep grades. Our stabilization crew was terminated on June 30. The status of the waterproofing of the Great Kiva roof is the same as previously reported. However, we have been waiting for the heavy duty Zone fibred roof material to arrive. This material has just been received and completion will be made shortly on this project. Before-and-after pictures are being made on all stabilization work to complete the stabilization report. Assistant Naturalist Steen inspected this work on June 26.

Buildings. Screen doors and windows were repaired on the quarters and minor repairs to the roof of the custodian's residence were made.

Signs. Three road signs were brought in and have been repainted. These signs will be placed on their same posts at an early date.

Maintenance. Much has been accomplished on weed eradication and mowing and raking a part of the monument grounds to keep down the fire hazards. Much of this type of work remains to be done--if and when funds are available. We are not equipped to do this type of work and it is necessary to hire a part of it done.

Visitor Trail. Due to the plating with bitudobe around Kivas H and J and the corner-door section of the ruins, it became possible to extend our visitor trail to that section of the ruins, adding much to our interpretive program, which can be made with comfort and very little extra time is required by the visitors to see this new addition.

National Park Service Officials. Charlie Steen, George Olcott, Paul Brown from the regional headquarters; Custodians McNeil and McKinney from Chaco and Arches.

Water and Pump. The rotary pump lost its prime during the month and it was necessary to do quite a lot of work before locating the trouble. A report from the Department of Public Health, Santa Fe, regarding the bacteriological results on a sample of water recently submitted from our tap, indicates that the water is safe to use.

Weather Statistics. Maximum temperature 96 on July 6, 10 and 11. Minimum temperature 50 on July 3 and 17. Precipitation .27 was recorded during the month. We had 17 clear days, 11 partly cloudy days and 2 cloudy days.

Use of Monument Facilities by the Public. Our travel as usual shows a decrease compared with July of last year. Our records indicate that 666 people arrived in 198 automobiles, coming from the following states: Arkansas 11, Arizona 25, California 54, Colorado 208, Florida 1, Georgia 4, Illinois 14, Indiana 5, Kansas 13, Massachusetts 2, Michigan 2, Missouri 4, New Jersey 2, New Mexico 224, New York 4, Ohio 3, Oklahoma 13, Pennsylvania 2, Texas 53, Utah 19, District of Columbia 2, Mexico 1. Two hundred fifty-six permits and one annual permit were sold, producing a revenue of $73.55 which includes all Federal Revenue tax on permits, waivers and children 12 to 16 years of age. Of the above number, 369 persons were guided through the ruins in 88 groups, while 377 people saw the museum in 85 groups. Total guide time, 138 hours and 45 minutes. Personnel engaged in interpretive service as follows: Miller 38 hours, Mahan 60 hours, Madson 40 hours and 45 minutes. Sixty cars with 210 people used facilities for which there were no charges.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 487; travel year to date, 2,727.

General Weather. Weather this month was a welcome relief from the hot, dry month of June. Rain fell on 15 days of the month; total precipitation amounted to 4.35 inches for the period. The rains have improved the roads, lowered the fire danger, and started the vegetation all over the monument. Rains have, for the most part, been slow and gentle and few violent storms have occurred. One heavy rain below the headquarters on the twenty-seventh destroyed the trail below the Lower Falls and it is now impassable.

Administrative. The Custodian spent several days working with the Army on lodge details. Most of the time this month went to supervision of the guard crew, packing in materials, and moving the camp.

Inspections. July 13 we met Superintendent Richey, Associate Landscape Architect Kell, State Highway Engineer Healy and Public Roads Administration Engineer Emrich at the Otowi Section and went over the defense road project which the Army Engineers will build across the section. It is contemplated that a hard surfaced road will be built from Santa Fe to the Los Alamos Project, passing through the Otowi Section. The Army is putting on pressure to have the road built and surfaced from Los Alamos to the river by October 1.

July 16, 17 and 18 were spent on a pack trip with Ecologist Ratcliff making a range survey of the monument. The Army has forced small ranchers off about 30,000 acres of their range around the Los Alamos Project and have suggested that the monument be opened to grazing to accommodate the stock taken off their former range.

Regional Forester Carlson and the custodian made a two-day pack trip over the monument late in the month to inspect projects completed by the guard crew and to inspect general forest conditions in the blow-down area. The Custodian made three pack trips over the monument to lay out telephone lines and trails for the guard crew, and to run out trespass stock on the south side. Nine man-days were spent packing in materials and moving camp.

Ranger Hendron made a detailed survey of the right-of-way of the proposed road on the Otowi Section to see what antiquities might be affected. One small house site was found on the center line of the road and excavated by Rangers Hendron and Kendall. Another larger ruin was found and plans are being made to excavate it scientifically before it is destroyed by the bulldozers. Ranger Hendron has spent most of the month working up his drawings and the material recovered in stabilization excavation carried on last month.

Maintenance, New Construction and Improvements. The sewer line between Cabins 7 and 8 became completely clogged during the month. All efforts failed to dislodge the stoppage and the cement floor had to be broken up and the line dug up under the cabin. It was found that the Army, in trying to open the line, had lodged a 4-inch steel "plumber's rose" in it. The stoppage was removed and the floor replaced.

We experienced the usual trouble with the refrigerator and found that the only solution seemed to be to place a water cooling device so that cold water constantly runs over the compressor coil to keep it cool. In this manner the efficiency of the coil is increased about 50 per cent and the temperature of the refrigerator rooms can be kept at a safe low temperature. The thing is unsightly and bunglesome looking, but it does the work of making our refrigeration plant carry about a 50 per cent greater load than it was ever designed for.

Five roof leaks were patched in the lodge. A great deal of alteration and triggering was done with our little light plant to attempt to make it carry a 50 per cent overload. So far it grunts and groans, smokes, overheats and screeches in protest, but has stood up. It promises to go through the roof any day and we'll probably get along on kerosene lamps for the duration.

The temporary rangers and the lookout have completed 12 large hand carved signs for the trails and 10 low standard boundary signs. The large highway sign on US #285 was repainted and replaced on the highway. The directional signs made in our shop last summer were placed at trail junctions throughout the monument. Eight signs were placed in Frijoles Canyon, three on South Mesa, eight in Capulin Canyon and six on the River Trail.

The fire guards had no fires to fight this month and accomplished a great deal on the fire protection facilitation projects. A new telephone line was constructed from Emergency Box #2 south of Alamo to the junction of the Stone Lions and Capulin Canyon Trails, a distance of 4 miles. They cut and peeled 40 twenty-two foot logs and 25 vigas for the permanent fire camp cabin in Capulin Canyon. They performed various items of trail maintenance necessitated by heavy storms in the Dome region. Later in the month the camp was moved to Alamo and then to Frijoles where the crew constructed 4-1/2 miles of new telephone line. A line was run from Alamo to the South Mesa "Y" and thence to Frijoles Canyon and up the canyon to the Upper Crossing. A spur line was also run to the tree ladder lookout on the Upper Crossing trail.

Interpretation. Visitors were cared for in 78 ruins trips. Several evening parties were organized for the benefit of the people living in the lodge. These trips proved particularly interesting. In addition to the ruins, we planned to reach the bat cave just at dusk and the bats stream out in a manner rivaling Carlsbad's noted bat flight. Two campfire lectures were held, with a total attendance of 67.

Projects for the Ensuing Month. Excavate a large ruin on the road-straightening line on the Otowi Section. We also plan to construct 5 or 6 miles of access trails in the worst of the blown down area. More signs will be made and placed and the monument will be patrolled for trespass stock. The trail to the Rio Grande will be repaired and relocated and if we have time we will attempt to do some improvement work on the Rio Grande river trail.

CANYON DE CHELLY, by M. M. Guillet, Custodian.

Visitors this month, 48; travel year to date, 319.

Weather. The lowest temperature registered this month was 50 degrees on July 21, and the highest was 101 degrees on the tenth. There was .61 inch rainfall as compared with .65 last July. The month was somewhat warmer than the corresponding period last year, but generally more agreeable as there were no high winds.

The rainfall we had was surely welcome as it was the "Go-ahead" signal for much of the work here. It meant another hay crop for the Navajos, gave the corn fields a new lease on life, and perhaps a few added pounds on the Navajo lamps this fall. It did, however, damage the trail into the canyon at Whitehouse, necessitating a week's work for the ranger and custodian as soon as we are able to get to it.

Administration. As the new custodian, I assumed full responsibility of the area. Ranger Sowers stayed until the fifteenth in order to make me acquainted with the area, then was transferred to Saguaro. We miss the old trailer house and its occupants. Before Sowers left, a complete physical inventory was taken and all equipment was signed over to the custodian. A trip into Callup was made on the twelfth for supplies and equipment, and the ration board was contacted about our new gasoline ration books.

Maintenance. Since the evening of my arrival, we've been swamped with maintenance work. The first three days were spent making the quarters livable. All the vigas in the house were cleaned and the gas line was gone over. Several bad leaks were found in the refrigerator and repaired. It appears as though we have the gas situation well in hand.

The office was cleaned and completely rearranged in order to have a little more room. The library was changed and a complete clean-up was made of the garages. Shelves and a floor were put in the storage hogan and the multiplex display was mounted there.

A drag was constructed to use in conjunction with the one here and after each rain we have been working the road while it was still moist. We have filled in a great many of the chuck holes and dragged the road for about three miles above quarters but there is still much to be done. Tools have been sharpened. The visitors' restroom has been cleaned and painted and sand and adobe hauled for work on the hogan and quarters as soon as weather permits. Ranger Thomas and the custodian completely cleaned the sewer line and flushed it out until one could "smell the breath of Spring".

General. On June 28, Ted and 'Celia Sowers took USDI 1218 to Coolidge and returned the evening of the thirtieth in their personal car. On July 8 Ted was called to Santa Fe for his preliminary draft examination. After being tapped on the head and chest, Ted convinced them that he was still alive, and returned to de Chelly on the eve of the ninth.

Visitors. During the mon h Chinle Recreational Club gave two picnics, both of them on the monument. One on June 26 and the other on July 24.

We had 48 visitors from 7 states, as follows: Arizona 18, California 6, Colorado 2, Kansas 3, New Mexico 15, New York 1, Texas 2.

Edgar S. Weinberg of the War Production Board at Los Angeles spent two days here. The Custodian guided him to the Monuments and White House on the first day and on the second to Middle Trail Canyon on the Lukachukai Road. There were no visitors from the armed forces.

Guide and Contact Service. Total contact hours, 23. Custodian Guillet, 14 hours; Ranger Thomas, 9 hours.

Fire Protection. Preliminary steps have been taken in formulating a plan of attack on any fires that might occur in the more or less inaccessible or middle areas between the various canyons. Before this can throoughly be worked out it will be necessary to take several trips, both around by Wheatfields and Saw Mill and find practicable truck trails. Our cooperative agreement with the Indian Service will prove adequate for all emergencies at present.

Projects for Ensuing Month. Putting a seal coat on the roof of the hogan. Continuing to try to get our roads passable. Replastering the outside of the quarters with adobe and a few more of the million and one things that need to be done to get this area in good order.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 3,000; travel year to date, 7,400.

We have had approximately 3000 visitors this month to the old volcano, just about the same as of one year ago, bringing total visitors this travel year to date to 7,400.

Weather for the month has been hot and dry, only about one inch of precipitation for the month, in three light showers. Grass and vegetation have been holding the line fairly well. Crops are not good. Highest temperature for the month was 95° and the lowest, 65°. Light variable winds most every day.

Roads in and around the monument are in fine condition and have been kept in first class order throughout the month. Considerable work has been necessary in removing the rock and cinders from the road as is always the case in dry weather, especially when dry weather continues over several months. Moisture is sadly needed to pack the road when dragging and maintaining.

Flora on the monument is suffering for the want of rain. There appear to be very few acorns on the oak and very few nuts on the pinon trees. There are fewer flowers this summer than for several years. We hope the dry weather will be broken up shortly.

Fauna: The wildlife on the monument is holding its own and doing fine in every detail. We retain our usual number of deer with an extra supply of squirrels this year, and more rabbits. Possibly this is due to the extra large crops of nuts last summer.

August will see more road work and more culvert cleaning, more campground attention, and possibly some work on the trails. Sundays are the big play for the visitors this month. Many soldiers from the Dalhart camp--and their families are visiting here on Sundays

CASA GRANDE, by A. T. Bicknell, Custodian.

This month, 407; travel year to date, 6,896.

Weather. Maximum for the report period was 114° on the twenty-fourth; minimum was 59° on the fourth; greatest 24-hour range was 49° on July 4. There were two days when the temperature did not reach 100, seven days when the maximum was 110 or over.

On three days a trace of rain fell; this station has had no measurable amount of rain since the fourth of March; we find that the average rainfall for the same period for the last three years was 3.27 inches. It is very dry in the vicinity of Casa Grande National Monument.

General. ODT called in gasoline coupons issued beyond July 5; the exchange of books for the fleet was begun on July 2; at this date all books but the one from Santa Fe have been received and exchanged and new books issued to men in the field.

Some time was spent in trying to get wage scales as of September 1942, as requested by headquarters; the US Employment Service office here has promised us a wage list of that date.

No reply has yet been received concerning the county revenue, desired by the Director's Office in connection with the Hayden Bill; a trip to the county seat may have to be made to obtain these data.

During the month we received shipments of glass insulators from Rocky Mountain National Park, two shovels from Platt, and mops from San Diego.

Mechanic Stonehocker went to Saguaro on the seventeenth with Ted Sowers and drove back USDI 1221.

Ranger Madson arrived on July 21 and left that evening with USDI 1254 and supplies for the Roving Ranger job; he took with him the engine and pump for Chaco Canyon, the power take-off for the tractor now at Chaco, and fittings for Canyon de Chelly.

Engineer Bradley stopped in going to and coming from Saguaro on the first and seventeenth.

Bates Wilson came through on his way from Saguaro, accompanied by a State Fish and Game representative.

A supply of SWNM map folders was sent to Montezuma Castle upon request.

The Custodian went to Sacaton Junction on the sixteenth to install the repainted road sign and returned by the town of Casa Grande to pick up tires which had been missent to the town instead of the monument.

Ranger Brewer left on annual leave on the first and returned to duty on the fifteenth.

Office work doesn't seem to have slackened, like our visitors, with the hot weather. Reports sent in during the period include all quarterly reports, the annual report to the Director, and the Fire Fighting Equipment Report.

Maintenance. Two days were spent on plumbing, clearing drains and repairing valves. The refrigerator in Quarters No. 1 was repaired; the washing machine was worked over. Routine maintenance was accomplished.

Completed Projects. The back pumps were repaired by Gene and sent to the field--to Tonto, Walnut Canyon and Montezuma Castle.

Projects for Ensuing Month: General cleanup in the carpenter shop and pottery storage room.

Visitor Use. A total of 5704 minutes was spent guiding visitors through the ruin and the museum; 57 trips, averaging 42.5 minutes, were made to the ruin; and 48 trips, averaging 26.6 minutes, were made through the museum, with 193 visitors making the museum trip. Passes issued to military men totaled 40; tickets sold total 146.

Flora and Fauna. By the end of June only one immature owl was left in the ruin; he stayed a few days but none of the owls have been seen since the first of July.

The night blooming cereus blossomed July 20--eleven buds opened that evening, on three different plants. We checked again on the rapid growth of the stems carrying the buds, and found that they really do grow at the rate of 25 mm. or 1 inch a day, for the last four days at least.

The barrel cactus bloomed early this year, following the lead of the other cacti--the first two observed blossoms were open on June 23.

CHACO CANYON, by Irving McNeil, Jr., Custodian.

Visitors for the month, 178; travel year to date, 465.

There were 178 visitors to Chaco Canyon who came in 74 cars. The states represented were Arizona, California, Colorado, New Mexico, Texas and Utah. All the visitors were on other business, and most plan to return and spend several days at Chaco after the war. Of these visitors, 12, forming 7 parties, visited the ruins. Ranger Collier spent 7 hours and 50 minutes with them, and the Custodian spent 2 hours and 55 minutes.

Although it doesn't seem to lure the visitors, the weather has been delightful recently. The days are warm, not hot, and the nights always cool. The warmest was 101 on the tenth, and the coolest was 42 on the fifth. To add to the pleasant weather, it rained 11 times during the period, with a total of .85 of an inch.

Even though the visitors seem unable to find Chaco, several National Park Service visitors were in. Charlie Steen, Assistant Park Naturalist, came on the twenty-sixth of June to examine the progress of the ruins stabilization. Also, Custodian McKinney of Arches National Monument (formerly of Chaco) was in on the fifth of July. His visit was all too brief, but while he was here he was plied with questions about where the water pipe lay and the like.

After I had learned to hide everything loose upon the approach of Custodian Cal Miller (for fear he will haul it off), Custodian Baxter from El Morro slipped up on me from behind and got a whole pickup load. He even got it hauled to Gallup by the Chaco men--just wait until Chaco needs some pipe threading, El Morro! It did no good to hide material from Custodian McKinney because he, as a former Chaqueno, knew where to look and succeeded in making off with all his pickup would haul...all in fun, fellows.

Under the head of wildlife protection should come this item. Last evening the Custodian heard an unusual "peep-peeping" out in the ruins. Upon investigation, it proved that 8 small quail had fallen into one of the deep rooms and were unable to extricate themselves. The mother was fuming about on top trying to coax them in an impossible task. They were all released, and took cover almost before touching the ground. Incidentally, there are a number of quail nearby with their young. Also, a number of young cottontail rabbits are noted.

Ranger Collier and the Custodian have been busy with many and varied projects this month. The generator and motor was moved again, this time into the garage. Signs were painted, fences repaired, four man-days were spent hoeing weeds, the temporary structures for the generators were demolished, part of the electric wires underground and above ground were removed, routine horseback patrols made and other jobs accomplished.

The second water tank was installed and connected and is in use, which gives twice the storage capacity available before. Ranger Collier built rat-proof, mouse-proof tops for the old and the new tanks. Also, he made an excellent job on building a set of garage doors.

Too, a field trip was made to Kiminiola and Kin Klizhin. Both ruins were in excellent shape.

In accessions, Chaco gained a gasoline lantern, a wrecking bar and a fire extinguisher.

The ruins stabilization crew worked well and hard, and a great deal was accomplished. However, the thirtieth of June caught them with the project in mid-air, even though they tried mightily to finish. As there is nothing in sight to keep them, the Navajos plan to go to work for the railroad. In losing them, two faithful and hard workers (hard to find any time, anywhere) are lost.

Chaco looks forward to next month with many projects to accomplish.

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month, 447; travel year to date, 2,671.

Travel appears to be reaching a stable point and without any further restrictions on private automobiles, we can probably assume the visitation will stay about the present numbers or percentage for the duration. Compared with last July we show an eighteen per cent loss. The larger earnings of the people is the probable cause of greater use of horses in visiting the monument. However, much of this horseback riding is being done by the armed forces. While they do not get large salaries, what they do get is practically all clear above their expenses. The advantages and disadvantages of education by movies is clearly shown in this horseback increase. Many of the eastern people always start off in high gear and occasionally one is skinned up a bit by riding "H--- for Leather" into a brush patch; after that they realize one must use the reins once in a while.

General. The drought conditions were eliminated with good rains during the latter part of the month. The junior fireguard, Pete Windes, will be terminated at the end of July. At present he is patching up storm damage on the fire trail and road to Sugarloaf Lookout; also acting in cooperation with the neighboring Forest Service areas that have a few dry spots as yet.

Maintenance. Other than regular, consisted of grading and cleaning road gutters on the Bonita Highway; trail maintenance other than the Sugarloaf Lookout, and much time running out the trouble on our twenty miles of telephone line. On one trip to Paradise and vicinity we broke a main spring on the boulevard in that region, which necessitated a roundabout way home, stopping in Willcox to get it fixed. I visualize the Secretary's Office informing me to save gasoline. However, if one has to travel over a hundred miles at times to go twenty it takes more gas than usual.

EL MORRO, by George Baxter, Custodian.

Visitors this month, 27; travel year to date, 236.

Weather. It has been exceedingly dry most of the month. However, it started raining on the nineteenth and in three days our water pool caught about 6 feet of water. Maximum temperature 93° on July 11 and 17; minimum 39° on July 4. Precipitation 2.86 inches.

General. Our travel didn't stay up to that of last month. We have had quite a number of parties but for some unaccountable reason the parties were small. Our total guide time was almost as much as that of last month, though our visitors were fewer than half last month's total.

I wonder if you other custodians have been thinking about all the new problems that will arise when the war is over and civilians are using helicopters for transportation. I can see myself dashing frantically up to the rock with the register in one hand and a roll of tickets in the other, while the tourist tries to view the inscriptions from about 10 feet off the ground. Will I have to build cages around the inscriptions to protect them from careless drivers?

Use of Monument Facilities by the Public. Twenty-seven visitors arrived during the month, from the following states and departments: New Mexico 10, Florida 2, Arizona 5, Texas 2, Army 3, U.S.I.S. 2, U.S.G. 2, C.A.A. 1. There was only one man here in uniform. Had 12 conducted tours around the rock with a total guide time of 20 hours 10 minutes. Personnel engaged in guide service: George W. Baxter 12 hours, 45 minutes; Hazel Baxter 2 hours, 45 minutes; Obie Worthen 40 minutes.

NPS Visitors. Charlie Steen was here on June 27. He examined the cellar where we found some pot sherds and bones and decided it was only rubbish.

Maintenance, Improvements and New Construction. Finished running the concrete dam.

Tore down old ranger cabin and salvaged all material and moved it down to new cabin site.

Returned cement mixer to Gallup.

Finished excavation for cellar.

Took forms off of dam and moved lumber down to garage.

Plastered inside of dam with thin coat of cement.

Cleaned up around pool and old cabin.

Borrowed a battery charger from Chaco Canyon and spent two days overhauling it. Finally persuaded it to run so we now have our radio batteries charged up again.

Built a substantial work bench out of 3"x12" lumber.

Built new stand for mail box and set it up on other side of road where trucks won't be knocking it over.

Projects for Ensuing Month. Clean filter and sterilize water pipes so we can have running water once more in the house.

Work on root cellar and ranger cabin.

Refinish entrance sign.

GILA CLIFF DWELLINGS, by Dawson A. Campbell, Custodian.

Visitors. Due to the gas rationing, there are few visitors to the Gila Cliff Dwellings. From January 1 to May 15 there were 12.

Maintenance. The trail is in good repair as we haven't had our rainy season yet.

General. The posters have been put up in prominent places.

We have answered several letters of vacationists who are planning to visit the Cliff Dwellings this summer. Mostly, they are interested in means of transportation, lodging, et cetera, near the Cliff Dwellings.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 57; travel year to date, 333.

Have had our first foreign visitors for some little time. California 5, Texas 4 and Missouri 2. Several of the above visitors for this month were run-arounds.

Continuing and Routine Projects. On assignment at Region Three and headquarters office for early part of this period, and will be going on again within the next few days or so. Several routine trips made, one through Albuquerque on way home from assignment, and a couple to Mountainair on gas rationing, et al. Installed new seat covers on Pickup 1411 and had battery recharged during month. Received several tools from Platt National Park surplus, and repaired the handle of the saw. Did some home work for the headquarters office, like typing notes and reports, since they are understaffed. Completed approach road sign maintenance. One day was spent on working over the telephone line system; seems we didn't get any results in trying to ring Central. Finally learned that the Central switchboard connection had become loose. Highway maintenance crew spent part of day going over our entrance road, putting it in excellent shape--mainly got rid of the weeds growing on the aprons. Some time wasspent in bringing headquarters file on the Physical Plant Index up to date, and a set of copies were made for this area and several other areas.

Hit-and-Miss. Getting rather weary of these low flying airplanes. One jumped me three feet out of my bed one morning. He came right over the house, and when I saw him leaving the place he was flying below the top of the flag pole in the parking area. He couldn't have been much over fifteen feet off the ground.

HOVENWEEP, by Thomas C. Miller, Custodian.

Visitors this month, 2; travel year to date, 86.

This area was inspected by the Custodian on July 17.

At Cajon I inspected the stabilization work performed by Charlie R. Steen, Assistant Naturalist, during the latter part of the month. While due to the labor shortage or no help available at all, Charlie deserves a medal for tying into that work at all, and although this is small scale stabilization with dry masonry, Charlie did a lot of good for the ruins. As a matter of fact, I would suggest that if you would give Charlie two good Indians and let him spend one season in Hovenweep on stabilization, our troubles with falling walls would be lessened and Hovenweep would look more like it had a caretaker. At Hovenweep Castle the visitor register indicates that two people signed during the month. The ruins are badly in need of stabilization. The fences and signs were in good condition.

Edward L. Madson, roving ranger for Hovenweep and Yucca House, was assigned to work at Aztec Ruins until repairs could be made to pickup truck No. 1254. Ranger Madson has just returned from Coolidge where he received and returned the pickup for use in this area this season. Ed will be at Hovenweep on duty at an early date. All tools and equipment are being assembled for that assignment.

MONTEZUMA CASTLE, by Homer Hastings, Custodian.

Visitors this month, 393; travel year to date, 2,214.

General. The weather has continued hot and dry with drought conditions prevailing throughout the entire month. Three light showers brought a total of .19 inch of rain but not enough to settle the dust at any time. Leaves on the creosote bushes are curling and even the big sycamores and hackberry trees are showing signs of the drought. The Castle Pool has been dry for weeks and even the pool in front of the residences has receded to a low level. The maximum temperature was 112° on July 25 and the minimum was 50° on July 3. The mean maximum was 100.26°; mean minimum, 61.56°.

Administration. Our visitor count was up 183 over the number counted in June and 21 more contact hours of service were rendered. This leaves our visit. count only 19.59 per cent under the count recorded for July 1942. A part of this increase is due to local use of a swimming hole in Beaver Creek as explained later.

Ranger Reed departed July 19 for an assignment at Arches National Monument.

Relief was rendered to Custodian Cotter at Tuzigoot National Monument on July 6, 7 and 16.

Custodian Hastings took annual leave on July 2 and 3.

Five copies of "Southwestern Archaeology" were returned to the publishers as requested by the Southwestern Monuments Executive Secretary.

Negatives and prints for file numbers 9100 to 9169 inclusive were submitted. This concludes our museum photographing project. With the exception of biological specimens preserved in alcohol, each artifact that was numbered separately was photographed separately. A total of 568 negatives and 1704 prints were

made. A print was attached to the Museum Catalog Card and to each of two print file cards while each negative was filed in an envelope and the data typed on all three pieces.

Maintenance, Improvements, and New Construction. The air conditioning unit for the museum was cleaned and put into service. However, it was used for only a few days because it does not create a satisfactory circulation of air in the building.

Trees and vines adjacent to the museum were given a limited amount of watering with the hose to keep them alive. Water was carried several times to all annual plants on our nature trail that have been numbered to coincide with our self-guiding booklet, "Sycamore Trail".

About the only annual plants that have not been withered by the drought were some silverleaf nightshade (Solanum elaegnifolium) that were coming up through the pavement around the museum. These were cut and burned. Brush encroaching on the trail to the ladies' restroom and the trail to the castle ladders was pruned. The most of two days was spent in cutting and burning witch's broom disease in the catclaw (Acacia) bushes.

Efforts were made to exclude bugs, principally the Triatoma or cone-nose bugs from Residence No. 2. A screen was placed over the fireplace chimney, all window screens were checked, and cracks around the door were battened. No cone-nose bugs have been seen since.

Use of Monument Facilities by the Public. The end of the gasoline rationing period brought a greater flurry of visitors than the Fourth of July, but it was over in a single day. Our visitor count has been augmented by local people who come to use the picnic grounds and swim in the Davis Hole in Beaver Creek. This is one of the best swimming holes in this territory.

Total cars 98, Arizona cars 76, total states represented 27, foreign country, France. Total visitors 393, number of tickets sold 127, revenue received $35.71, members of the armed forces admitted free 11, children admitted free, 34 of whom 5 were taxed.

Guide Service. Total contact hours 82.25; Reed 41, Hastings 41.25. Ruins trips, 58 for 172 visitors; museum parties, 59 for 192 visitors. Information service for 39 visitors.

Soil and Moisture Planting. A careful check was made on the black willows planted last March and a report was submitted. Out of 250 willows planted, only 14 are showing any signs of life, a condition that is undoubtedly due to the prolonged drought.

Accessions. Two or three years ago the highway crew blasted into a cave about two and one-half miles from the monument on the road to McGuireville. In the cave were various prehistoric artifacts, some of unusual interest. The most outstanding are two pieces of fiber netting each about six inches long and three inches wide. A pierced shell is attached to each of the lower loops of the netting and when the piece is swung gently, the shells emit a tinkling sound. The entire collection has been donated by the E. H. Richards family on whose land it was found. Each piece has been photographed and a report is soon to be submitted.

Fauna. The cone-nose bugs reported last month appear to have left in favor of black widow spiders. One was caught in a food cupboard in the kitchen and a large one with her egg case was found in the Flamo cabinet. Specimens of the triatoma and the black widow spider were mailed to L. P. Wehrle, Associate Entymologist, at the University of Arizona.

Newsworthy Visitors. Custodian Cotter, his wife and infant daughter. Custodian Baxter and his wife. Charles Albert Harwell, California representative of the National Audobon Society.

Visitor Reaction. A woman expressed great delight at finding "Angels' Trumpets" blooming along the path to the museum door. And here we have been calling them jimson weed all the time.

Projects Planned for Ensuing Month. Patch rough spots in our entrance road with bitumuls and fine gravel. Install underground telephone line that will permit moving the extension telephone from the office to Residence No. 2. Resurface trails around the residences with fine river gravel to reduce the limestone dust tracked into the houses. Clean walls of kitchen in Residence No. 1 and refinish the floor of this room and the back porch. Pray for rain.

NATURAL BRIDGES, by Thomas C. Miller, Custodian.

Visitors this month, 29; travel year to date, 118.

General. Visitor travel at this area has been slow and some of the visitors contacted by Wiley Redd seemed to hesitate about signing the visitor register and one party did not register, Mr. Redd reports, because they were afraid the OPA might relieve them of their wartime necessity cards for being that far from their official business.

Southwestern Utah is exceptionally dry, with no rain reported the entire month. The Cheat Grass and other dry vegetation certainly creates a fire hazard While no fires have been experienced to date this year, if it does not rain at an early date we might consider ourselves very lucky if no fires have to be suppressed.

Mr. Redd reports that all visitors were contacted and guide service was rendered when the group wanted it. This area was inspected by this custodian on July 1 and 2 to receive delivery of pickup No. 1228 at Moab, Utah, and to assign Mr. Redd to duty as Senior Laborer for the season. Then on July 14, 15 and 16 all trails were inspected with Mr. Redd and work for the season in the way of trail maintenance and procedure was discussed.

Use of Monument Facilities. Our records indicate that 29 visitors entered the area in six automobiles coming from the following states: California 2, Colorado 3, Florida 7, Utah 11, New Mexico 6.

National Park Service Visitors. George Olcott and Paul Brown from regional headquarters at Santa Fe. They were accompanied by their two sons and made the nine-mile trail trip to all the Bridges on July 16. We were glad to see Olcott and Brown make this trip to all the Bridges as we consider this trip tops, but a little strenuous on the hiker.

Maintenance, Improvements and New Construction. The old quaking aspen flag pole was removed from a pinon tree and burned for firewood. The old worn-out flag was burned without any ceremony and replaced with a new one. A new flag pole painted white was installed in a more desirable location. The headquarters area was raked and thoroughly cleaned of old rubbish. The old pit toilets were dismantled and the lumber stacked in a neat pile. Signs were removed from trees along the trail and put on posts. The new pit toilets were stained on the exterior and painted white in the interior. All tin cans were removed and buried. Work was started on maintenance of trails, drains opened, and much oak brush cut and removed from trails. Mr. Redd had made a good showing on this area in a very short time. In another month's time this area should be in fairly good shape with the exception of a few places in the trail where it will require the expenditure of some trail money to put the trail back to where it was during Zeke Johnson's time at the Bridges.

Projects for the Ensuing Month. Inventory of all tools and equipment, survey the obsolete equipment such as worn out stoves, and install one new stove

if funds are available or if a stove can be obtained by transfer. Continue on repairs and improvements to the 9-mile visitor trail, and keeping all reports and correspondence current will keep us busy the entire month.

NAVAJO, by William M. Wilson, Acting Custodian.

Visitors. There were 8 visitors in 2 cars; 1 car from California, and 1 from Arizona. All visitors saw Betatakin Ruins, and 4 were guided to Keet Seel. The Californians were most enthusiastic about the ruins and the country and hope to come again when the war is over.

Weather. Most of the month was hot, dry and windy. However, on the twenty-first the first real rain of the season fell, .59 inch, the most in one day in six months. Total precipitation for the period was .79 on 4 different days. The high ranged from 68 on the twenty-first to 96 on the tenth; low from 51 on the third to 63 on the eighth.

Roads. About as usual for this time of year, rough in spots and sandy in others. However, at this writing we should not have to detour or shovel sand.

Maintenance, New Construction, Miscellaneous. Inspection trips were made to all three ruins during the month. The wash in front of Inscription House Ruins has eroded until it is about 20 feet deep. There will be no danger of trespassing there for some time. Maintenance and office work were kept current, and daily patrols while it was so dry.

Projects. The main project at hand is the installation of the underground gasoline tank and pump which arrived today. The usual maintenance and inspection will be carried on.

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 4,988; travel year to date, 40,999.

Weather. On June 28 heavy local showers fell on Bates Well and Senior Gray Ranch. This was the first rain these two areas have had in fifteen months.

Travel. The expected decrease in travel, due to the hot weather, hasn't come yet, for the travel count this month shows an increase of 18 per cent over June.

Roads. The increase in travel is mainly due to the excellent maintenance of the road by Buddy Cox. In spite of no rain, poor equipment and an injured back, he has kept the road in good shape.

Wildlife. One trip was made to the head of Alamo Canyon where more sheep sign was seen than on any previous trip. In one hour over five hundred White Wing Doves were counted as they came into water. Many of them are nesting in the oaks and cliffs below the Tinaja. Eight nests were seen with eggs and one balanced a day-old squab.

A rare sight was witnessed by Mr. Kempton, U. S. Fish and Wildlife Service, and myself. On a rock just above the Tinaja we watched a mountain lion sun and

stretch itself for ten minutes. We were only four hundred yards away and, looking through the field glasses, we could almost grab an car.

NPS Visitors. Bill and Ann Supernaugh arrived the evening of the eighth and spent the night at the border. Bill was reporting for duty on his old job as Custodian, but returned to Saguaro the next day on special assignment. His return to OPC should be within the next month. Bill says that he prefers this country, as dry as it is, to the liquid breezes of Cape Cod. Hope to see you soon, William.

Projects for the Coming Month. It is hoped that the whole month will be spent on the temporary dwelling with just enough time out for routine patrols and one more trip into the Big Ajo Mountains.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 299; travel year to date, 4,809.

Travel. Two hundred ninety-nine visitors arrived this month, in 89 vehicles. Of these, 54 were instate, 28 outstate, and there were seven Army vehicles. Guide time--6 hours, 30 minutes. John Peavy--4 hours, 20 minutes. Marge Peavy--2 hours, 10 minutes.

Weather. We have had three rains on the mountain during the month, averaging close to three inches of precipitation. We had enough rain on the sixth and eighth that the fire could be officially declared out on the eighth. The fire danger has been greatly decreased for the entire month, even considering that we have had several lightning storms.

Fires. There were two fires started by lightning on the seventh. One was in Happy Valley Saddle and beyond the extent of fire No. 2 in the area. The other was below Helen's Dome. During the night of the seventh, while the lightning storm was in progress, Junior Fire Guard Vanover was on Spud Rock watching for fires. The lightning struck nearby and his horse was knocked down and its shoes torn off. Vanover's legs were numbed and the sole of one of his shoes torn off. However, there were no serious complications.

Survey of Fire No. 2. Engineer Bradley arrived on the second. USFS Ranger Lewis, Bill Supernaugh, Bradley and I drove to Happy Valley to locate points to tie into in order to establish the east boundary of the fire. Bill and Bradley spent another day in Happy Valley and then rode up the mountain to complete the survey. Ranger Lewis assisted on the thirteenth, fourteenth, fifteenth and sixteenth. The field work was completed the sixteenth. I walked up the mountain on the fourteenth, mainly to see how the survey was coming along and to see how the boys were advancing with their camp work and tool reconditioning. I worked with them on the fifteenth and returned to headquarters on the morning of the sixteenth.

Ranger Service. I finally got a ranger on the seventeenth. Ted Sowers and Gene Stonehocker arrived from Casa Grande on that day. Gene returned to Coolidge with USDI 1221 and the Sowers' are again located at Saguaro.

I sent Bill Supernaugh and Ted up the mountain on the twentieth to begin the repair and replacement of the telephone line that was destroyed by the fire. Their work on this project was completed by the twenty-fifth.

Cooperation. On the twenty-third, Assistant Forest Supervisor Scott and Acting Assistant Sam Sowell of the Coronado National Forest visited me in the morning. We discussed the outcome of the fire and possible total acreages and the amount that the fire encroached on the national forest.

Closing. I have been very busy straightening up the office matters connec- with the Saguaro fire, filing employment, payment, etc. the entire month, so have had little time to accomplish any maintenance work other than keeping the loop road in shape.

SUNSET CRATER, by Philip F. Van Cleave, in Charge.

Visitors this month, 376; travel year to date, 2,211.

Two inspections were made of Sunset during the month of July. On the twenty-sixth, about an hour was spent in clearing the ground in front of the various directional signs between Highway 89 and the crater. Fire protection signs were installed around the parking area and in several places along the entrance road.

Very little refuse had collected during the month. Several down snags were cut up and removed to Wupatki for firewood.

TONTO, by Elmer C. Gipe, Custodian.

Visitors this month, 161; travel year to date, 2,516.

One hundred sixty-one people arrived in 50 cars, 25 of which were from Arizona. Fourteen states were represented. Ruins trips, 20 with 70 people. Museum parties, 39 with 127 people. Parking area contacts, 24, and 2 turn-arounds. Armed forces, 6.

Personnel time: Custodian Gipe 35 hours.

Visitor Reaction. The number of visitors is steadily dropping and fewer of them care to climb to the ruins in the intense heat but say they plan to return when it is cooler. Those who do not go to the ruins stay longer in the museum as a usual thing. We do not have so many now from nearby towns. Rationing seems to have caught up with them.

Weather. Still intensely hot and dry. There have been a number of showers over the mountains nearby, but this place seems to be cut of line for them. Have had some cloudy days and nights but only a few drops of water.

General. Made one trip to Globe, using my own car as it needed to be worked on.

NPS Visitors. Ted Sowers and the Mrs. came in on the sixteenth to bring some publications from Canyon de Chelly, lunched with us and then rushed on to Saguaro.

Ranger Madson was in the morning of the twenty-second, to pick up pipe for Canyon de Chelly.

Mechanic Stonehocker arrived on the nineteenth, with plaster and cement. He stayed until the twenty-second, so that the dump truck could be used to haul sand to be used in floors and plaster for walls.

Maintenance. The usual cleanup work which has to be done regularly, some time spent on cleaning water tank, also removal of rocks from several areas. Water line was changed to connect with temporary cabin and inspection of some sections of fence line to see that fire and boundary signs were in good order.

Wildlife. We still have large numbers of quail, both big and little, and a variety of other birds are spending the summer here. The squirrel family has two new, very active members, and they are quite fearless.

A very elegant rattlesnake was killed in one corner of the living room in the new quarters, a coontail, over four feet long.

This is also the headquarters, apparently, for all the mice and rats in the Service. We have to maintain a regular patrol in the tents to keep them from dragging off the provisions and chewing up the bedding.

Projects for Ensuing Month. Begin work on sump, maintenance work and cement and plaster work on quarters.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 334; travel year to date, 4,158.

General. Although the "rainy season" is supposed to be here, no rain has fallen to speak of. Several showers have settled the dust. Watering of shrubs and trees of necessity continues.

Visitors. Three hundred thirty-four visitors stopped at the monument and of these 320 were conducted through the mission ruins and the museum. Total contact time amounted to 57 hours, 55 minutes. Of this time Caywood spent 27 hours, 30 minutes and Mattison 30 hours, 25 minutes in contact work.

Projects. The stone and cement retaining wall was completed and work continues on filling the space between it and the boundary wall with dirt and rock.

A portion of the pipe line was removed and placed where it now serves better in the water distribution system.

One more roof drain was removed, lowered and reinstalled on the custodian's residence. One hundred square feet of roofing were removed and replaced in order that the ranger and custodian could give the roof the proper pitch toward the lowered drain.

Accessions. One hundred green angle folders were received during the month. In time these will be installed and will greatly simplify the filing system. Thirty-five gallons of asbestos roof covering have been received from the Zone Company.

Projects for the Ensuing Month. Regular maintenance and ground work will continue and consume most of the time of the personnel. Asbestos roof covering will be applied when instructions are received for its application.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 259; travel year to date, 2,783.

Travel. Par for the times. Among the visitors was one "special" party consisting of the Baxters from El Morro, who were making their first visit to Tuzigoot. We were mighty glad to meet George and his HCMP, and were sorry theirs had to be a flying visit.

Trends. Weekends no longer mean the rush they used to. But watch for the final day for the current "A" gas ration number. You can count on a flurry of thrifty motorists who have a final stamp to blow.

Guide and Contact Service. Museum, 27 hours 5 minutes; field, 21 hours.

Personnel Time. Acting Custodian, 44 hours 35 minutes. Relief Ranger Reed, 80 minutes. Homer Hastings, 2 hours 40 minutes.

Special Service. The Acting Custodian spoke at a meeting July 15 of the Clarkdale Speakers Club. Sixteen members were present.

Projects Completed. Three rousing breaks in the Tuzigoot water line from Clarkdale were located and clamped during the past month. Each time the Acting Custodian found himself in deep water and took a gratuitous bath.

Projects Continuing. More pipe line breaks to be mended, no doubt. Continue working on clearing debris from Unit IV reconstruction. Work of filing and annotating stabilization pictures will go on. All pictures are now taken but a few shots must be remade because of errors. "No hunting" signs will be posted at monument boundary lines.

WALNUT CANYON, by Paul L. Beaubien, Acting Custodian.

Visitors this month, 658; travel year to date, 3,620.

General. There was one drizzling rain of about half an inch that laid the dust for a day or so, but the country is still very dry.

The annual "pow-wow" was held in Flagstaff over the Fourth, bringing a few visitors to the monument.

Visitors. Of the 658 visitors, 282 were not contacted, and it is estimated that 400 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Fish, 27; Beaubien, 14.

Activities. Approximately 80 per cent of our time was spent erecting the portable repair shop and the other 20 per cent was spent on routine jobs of maintenance, contacting, office work and trips to town for materials, supplies, and administrative duties. One-half of one man-day was spent floating roads and parking area after the rain.

Changing Trends in Public Use, Etc. None were observed.

Projects for Ensuing Month. Finish the repair shop except for the concrete floor. Then badly needed maintenance work on existing buildings--fixing roof leaks, painting, etc.

WHITE SANDS, by Johnwill Faris, Custodian.

July visitors, 5,127; travel year to date, 29,286.

July has been a good month with some moisture, especially in the mountains. Visitors for the month total 5,127 in 949 vehicles. One official trip was made to El Paso in connection with some recapping, a power unit and several minor items. No inspections were made of either Dog Canyon property or the Lake Lucero area. The temporary ranger was cut off the first and we have managed without one so far.

All routine is current with the exception of maintenance and we are doing what we can, when we can. Army travel accounts for about one-half of our total visitors. High temperature was 103 on July 23 and low 56 on July 13. .43 inches of rain fell during the month.

My entire month was largely routine, with no special events breaking int the routine. Several Army groups, many of the smaller party type, and the USO picnics were arranged.

Our entire map collection was gone over once more. In addition to the name, number, etc., the maps were smoothed out and are to be placed in a regular map file. Roy has worked hard on this and it will be a big relief to get it all fixed up right. He is also doing some work on our mimeograph machine, which has been more or less useless to date. A few minor hitches are to be ironed out, after which this machine should be available.

Our publicity is reaching out probably as it never has before, but the results are dormant as far as present visitors are concerned. If all our armed forces use comes back with their armies that they claim they will, we will have 80,000 visitors the first travel year after war restrictions are lifted.

No major complaints were made to this office nor have we heard of any being made. The boys are doing a swell job of contact work and I feel sure no complaint on any of my boys would be justified.

Maintenance has consisted of minor work on roads, buildings, and eneral utilities, even to the mimeograph as reported above.

The White Sands Service has been in operation the entire month on a part-time basis, and reports a good month.

Guide service and museum contacts I feel have held up very well; at least our visitors all seem well pleased and much impressed.

Several of our late blooming cacti have caused considerable excitement among our headquarters visitors; they were beautiful. A small fox was seen on our northeast boundary a few days ago.

All our visitors seem much more at ease in traveling. The first thought of being unpatriotic in visiting our areas seems to have passed over, or at least no excuses are offered of late. A wave of optimism seems to be in the minds of most visitors. Nearly all ask, however, how our travel is holding up, so maybe down deep in their hearts they wonder.

New groups at the Alamogordo Air Base mean new picnic groups and this, combined with the USO picnics, counts up.

Next month would normally be our best month, so even with war restrictions we have to plan on our past experiences and so far they have been very good as a criterion.

The loss of our temporary ranger means, of course, we have to absorb that work so I have no doubt that all my boys will of necessity be on their toes.

Jane has had a little bad luck and has been forced to take medical treatments for the past month. At this writing it is hoped the end is in sight and she will soon be free of these visits.

WUPATKI, by Philip F. Van Cleave, Acting Custodian.

Visitors this month, 61; travel year to date, 546.

Activities. The rains which we of Wupatki Basin were so glad to see, were short, in many ways inadequate, but nonetheless damaging. The entrance road from Highway 89 has been vacillating between poor and worse for some time, but now it appears that the time is at hand to make a major effort toward road repairs. Three trips were made to the worst stretch of road near Doney Crater where small repairs consisting largely of rock removal and clay and stone fills were made. There has been no work done on the road by heavy equipment since the removal of the CCC from Heiser Side Camp in March of last year. It is hoped that I can arrange for the use of a dump truck in the near future; for what work can be done with the aid of the pickup is not sufficient to keep abreast of the tide.

Two other causes for major activities of the month can be blamed on the Rain Gods, namely the collapse of roofing timbers in room 44 of Wupatki, and the accumulation of clay in the collecting reservoirs at Wupatki and Heiser Springs. The two springs have been cleaned and temporary shoring has been installed under the broken roof members.

A rather extensive post-rain inspection of the ruins of Wupatki Basin was made on the twenty-second of the month. Little damage seems to have been done at any of the outlying ruins. On this tour I located a very nice series of petroglyphs in fair proximity to the Black Falls road. The tour covered the major share of lands being currently grazed by Navajo sheep, and for the most part, these lands are still in vital need of rain.

Fourth of July. A very quiet Fourth was enjoyed at Wupatki. The Navajo contingent of the population went "en masse" to the festivities at Flagstaff, leaving a bare handful of youngsters to look after the flocks. Their return looked like a rebirth of the pioneer days for a train of ten wagons put up for the night of the sixth at Black Falls. We had several groups of Navajos come up to tell about all of the big doings in town and to ask why we didn't go in. Gas rationing doesn't enter the average Navajo life to as great an extent as does the rationing of coffee!

Bessie, one of the local Navajo girls, is back home here waiting to die of tuberculosis. As is too often the case, she waited until she could hardly move before going to the White doctor. When she finally got to the sanatarium, the doctors looked at her and gave her two weeks to live and sent her back home. It has been a boon to the native practitioners though, with sings going on almost every night.

Weather. Although we have had an abundance of cloudy weather and thunder this month, we have had a total of less than one-half inch of rain. Temperatures have been a little lower than those of July 1942. Maximum to date has been 103 degrees on the tenth of the month.

Surface Artifacts. Numerous arrowheads and beads have been picked up from the paths about the ruin since the rains. One very nice little red-stone bird effigy was found on the old CWA dumping ground.

General. The clay fill around the basement of the projected administration building has been settling rapidly so that considerable time is required to keep the various little "sink-holes" filled. The under-fill is composed of rough lava boulders and hence this condition constitutes a hazard which might bring about the injury of some unsuspecting visitor chancing to fall through.

The sides of the fill below the service road and the road to the parking lot were tamped and erosion cuts filled, but since the rain new cuts have appeared. Here again a dump truck would come in mighty handy.

The night of the tenth on my arrival back at Wupatki from Flagstaff, I found a beauty of a scorpion making herself at home in the dining room. Tentatively identified as Hadrurus spadix, it will later be sent to Dr. Stahnke for confirmation or otherwise. It is being kept alive on a diet of crickets and seems to be thriving. It will be taken into Flagstaff to serve as a demonstration for a seminar talk at the Museum of Northern Arizona, to be given by Corky Jones. It's too bad that we can't all go to hear Corky, because I know that some of her "personal" experiences with the scorpions of Wupatki would be of more than passing interest.

YUCCA HOUSE, by Thomas C. Miller, Custodian.

Visitors this month, 1; travel year to date, 59.

This area was inspected on July 18. One lone visitor had signed the register. The signs need some paint and the stile also needs a new coat of paint. No evidence of vandalism was noted.

SUPPLEMENT

The following information of interest to the field was extracted from the Superintendent's July Narrative Report for the Director.

Special Activities. Superintendent Richey was on duty in Santa Fe until July 25, and from July 6-20, inclusive, served as Acting Regional Director, during Mr. Tillotson's attendance at the Regional Directors conference in Chicago.

On July 13 an inspection was made of the "P" line survey of the military access road project across Otowi Section, Bandelier National Monument, with New Mexico Assistant State Highway Engineer Healy, PRA Engineer Emrich, Associate Landscape Architect Kell and Custodian Thomas. The first section, six miles, of this emergency project is programmed for completion by October 15. Work contemplated is grading, drainage, and top surfacing; will give an oiled road to the Otowi Section.

Considerable time was spent conferring with Army and civilian officers of the Los Alamos (Zia) Army project regarding use of Frijoles Canyon Lodge by the Army, access road construction, patrol of approach roads to Bandelier and related matters in connection with the development of the above mentioned Army project.

On July 25 the Superintendent, accompanied by Superintendent John R. White of Sequoia National Park, departed from Santa Fe by car en route to Saguaro National Monument to make a review of the Manning Camp fire. On the twenty-sixth an inspection was made of Chiricahua National Monument with Custodian Fish. The remainder of the month was spent at Saguaro National Monument and vicinity with Col. White and Custodian Peavy. An inspection was made of fire trails.

Assistant Superintendent Maxwell was in the office the entire month. He was Acting Superintendent during the period when Mr. Richey was on a field trip to Arizona with Col. White. In addition to his duties with Southwestern National Monuments, Mr. Maxwell aided in dispatching the work of the Region Three Office.

Personnel

Appointments

Tomas R. Roybal, Junior Fire Guard, Bandelier National Monument, effective July 5, 1943.

June Appointments Not Previously Reported

Pedro R. Gomez, Assistant Fire Guard, Bandelier National Monument, effective June 1, 1943.

Veronico Stephen Roybal, Junior Fire Guard, Bandelier National Monument, effective June 1, 1943.

Opal Buchanan Kendall, Junior Fire Guard, Bandelier National Monument, effective June 15, 1943.

Robert McClellan Vanover, Junior Fire Guard, Saguaro National Monument, effective June 16, 1943.

Jerry Trujillo, Under Fire Guard, Bandelier National Monument, effective June 17, 1943.

Ricardo Roybal, Junior Fire Guard, Bandelier National Monument, effective June 21, 1943.

Returned from Military Furlough

William R. Supernaugh, Custodian, Organ Pipe Cactus National Monument, effective July 8, 1943.

Intra-Transfer and Change in Status

Meredith N. Guillet, from Park Ranger, Casa Grande and Natural Bridges, to Custodian, Canyon de Chelly National Monument, effective June 22, 1943 (not previously reported).

Bates E. Wilson, from Acting Custodian, Organ Pipe Cactus National Monument, to Park Ranger, Saguaro National Monument, effective July 8, 1943.

Resignations

Robert E. Moore, Park Ranger (Seasonal), White Sands National Monument, effective June 30, 1943. (Induction into military service).

PERSONNEL NOTES

In a letter dated August 17, Katherine Wilson of Navajo National Monument reports that Hosteen John Wetherell suffered a serious heart attack some time ago and that he has been quite ill and unable to do anything since that time.

Another good man has been taken into the Army. Ted Sowers reported for induction in Denver on August 20. He passed through Santa Fe en route, bidding farewell to friends at the headquarters office. Cecelia's home is in Denver and it is assumed that she will remain there while Ted is in the armed forces.

The vacant position at Montezuma Castle was filled during August by Johnny Clark, formerly elevator operator and guide at Carlsbad Caverns National Park. Although in his early forties, Johnny holds the distinction of being a grandfather, his daughter, Mrs. Marvin L. McVicker of Carlsbad, having recently presented him with a grandson. Johnny's wife, Katherine, will remain in Carlsbad (where she is working) in order to keep the two younger girls, Evelyn and Marinel, in school. Johnny comes to Southwestern National Monuments with a number of years of Park Service experience and a reputation for his pleasant and friendly personality apparent in handling visitors at Carlsbad Caverns. We hope that you will like Montezuma Castle, Johnny.

Harold Enlows (seasonal Chiricahua) writes that he is now Lieutenant (J.G.) and is taking a course in Aerological Engineering at the U. S. Naval Academy at Annapolis. He says that when he finishes the course he will be a qualified weather forecaster. This, he indicates, will make him capable of running the weather station at Chiricahua for Frankie Fish after the war is over. Harold expresses gratitude for "Personnel Notes", requests they be kept coming, and hopes that the war will end soon so that he can go back to Chiricahua and finish up the work he started while there.

In his monthly report for June, Cal Miller shows 205 cars and 77 people. That figures about 3 cars per driver, which seems rather extravagant for wartime gas and tire rationing. In the old days we frequently passed caravans of cars being towed to Pacific Coast sales floors, but even then not more than two cars per driver. Of course, Gene Stonehocker, not being triplets, has to drive one and tow two, but to have 77 visitors, each with two cars in tow--well, Cal, we just don't believe it.

Charlie Steen was involved in a mishap some time ago which merits inclusion in the records. Deeply interested in reading some report, his feet on his desk, he was aroused by someone who informed him that two high Army officials were coming to question him on archeological matters. At that moment the Army officers appeared. Steen, in his haste to get his feet off his desk, didn't notice where he was putting them and had the misfortune to wedge them in the wastebasket. Since that episode Steen has taken care to see that his wastebasket is kept at a safe distance from his desk.

Quintin Bradley (Captain USMC), formerly of Canyon de Chelly, arrived in Santa Fe on August 5 with a brand-new bride to spend a week with his parents. He then returned to duty at San Diego.

Helen and Julian Hayden, well known to SWNM personnel, announced the birth of a new son, Steven Banbridge, early in August at Yuma, Arizona, where Jules is a civilian employee of the Army Engineers.

Evon Z. Vogt, Jr. (seasonal El Morro, Bandelier and Montezuma Castle) writes in that he is now stationed "Somewhere in South America" where he is enjoying his work and learning the native language. He sends regards and best wishes to all his friends in the Southwest.

SOUTHWESTERN NATIONAL MONUMENTS
TRAVEL TOTALS FOR JULY, 1943

Station	July 1943	1943 Travel Yr to date	July 1942	1942 Travel Yr to date	Increase or Decrease	Percent Increase or dec.
Arches	87	676	94	1528	-852	-55.7
Capulin Mountain	3000*	7400*	3000*	15100*	-7700	-51.0
Chiricahua	447	2671	549	4822	-2151	-44.6
Natural Bridges	29	118	51	117	+1	+0.85
Organ Pipe Cactus	4988	40999	130*	4715*	+36284	+769.5
Rainbow Bridge	5*	10*	10*	60*	-50	-83.3
Saguaro	299	4809	126	9279	-4470	-48.1
Sunset Crater	376*	2211*	1306*	4520*	-2309	-51.1
White Sands	5127	29286	7240	40588	-11302	-27.8
Total Biol-Geol.	14358	88180	12506	80729	+ 7451	
Aztec Ruins	666	3313	1130	4572	-1259	-27.5
Bandelier	487	2727	767	3120	-393	-12.6
Canyon de Chelly	48	319	141	1116	-797	-71.4
Casa Grande	407	6896	491	14505	-7609	-52.4
Chaco Canyon	178	465	51	371	+94	+25.3
El Morro	27	236	54	399	-163	-40.8
Gila Cliff Dwellings	8*	20*	10*	35*	-15	-42.8
Gran Quivira	57	333	203	1206	-873	-72.3
Hovenweep	2	86	21	51	+35	+68.6
Montezuma Castle	393	2214	470	4931	-2717	-55.1
Navajo	8	45	13	114	-69	-60.5
Tonto	161	2516	174	4857	-2341	-48.1
Tumacacori	334	4158	600	5878	-1720	-29.2
Tuzigoot	259	2783	512	4950	-2167	-43.7
Walnut Canyon	658	3620	1289	5971	-2351	-39.3
Wupatki	61	546	156	1328	-782	-58.9
Yucca House	1	59	20*	68*	-9	-13.2
Total Hist-Arch.	3755	30336	8476	53472	-23136	
Grand Total for July, 1943	18113	118516.	20982	134201	-15685	-11.68
Last Month	14049	100403	18890	113219	-12816	-11.32

*Estimated.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

September 23, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

August narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Assistant Regional Director.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Associate Naturalist Dodge was in the headquarters office August 1-10 and August 27-31 attending to routine Southwestern National Monuments and Region Three interpretive matters. From August 11 through August 26, he was on a field trip dealing with interpretive problems at White Sands National Monument and Carlsbad Caverns National Park.

Assistant Naturalist Steen was in the headquarters office throughout the month except for six days spent in completing emergency archeological excavations at Bandelier National Monument. His work in the office dealt with ruins stabilization plans and reports and with routine interpretive activities.

Special Activities--Conferences. A committee appointed by the Regional Director under the chairmanship of the Associate Naturalist met at Carlsbad Caverns National Park to study problems having to do with the handling and guiding of large groups of caverns visitors. A set of recommendations was prepared for submission to the Regional Director.

Public Relations--Publicity. "Nature's Bridges", an article on the forces of nature which produce natural bridges and arches, by Dr. R. E. Janssen of Marshall College, appeared in the September issue of Scientific Monthly. Considerable space is devoted to the famous bridges and arches of Rainbow Bridge, Natural Bridges, and Arches National Monuments.

Extension Services. Three illustrated talks were presented during the report period, as follows:

16 Santa Fe Altrusa Club members, "National Monuments of the Southwest"
85 Albuquerque Kiwanians, "National Monuments of New Mexico"
62 Boy Scouts and parents, "Desert Reptiles".

In addition, two talks illustrated with colored movies on the National Monuments of New Mexico and Arizona were presented at White Sands National Monument as a means of breaking in White Sands personnel on the use of these reels which were loaned to them for showings to units of the armed forces. One of the talks at White Sands was presented to a group of local air base men under the auspices of the Alamogordo USO.

Of the three sets of motion picture reels on the National Monuments of New Mexico and Arizona owned by headquarters, one has been loaned to Boulder Dam National Recreational Area, one to White Sands National Monument, and the third has been requested by the Superintendent of Hot Springs National Park. The set held for some time at Boulder Dam National Recreational Area has been requested

Arizona Archeological Center Library

by the Superintendent of Grand Canyon National Park. All have been and will be used steadily in showings to personnel of the units of the armed forces which visit or are stationed in the vicinity of the areas mentioned.

Loans--Gifts--Accessions. Six rolls of slightly outdated Kodachrome (K135) film were received from the Director's Office. Fifteen Kodachrome frames were received from Carlsbad Caverns National Park.

Progress of Museum Plans and Projects. A start was made in the distribution of Southwestern archeological and ethnological items belonging to the Agnew and Mercer University collections which were received last month. Distribution is made to Service areas, with proper protection facilities, as near as possible to the source of the items concerned.

Reports from Walnut Canyon National Monument indicate that leaks in the museum cases make them unsuitable for installation of exhibits until later repairs are made.

Kodachrome photographs, in duplicate, were taken of exhibits at White Sands National Monument.

Cooperative Projects. Through arrangements made with the state game wardens of New Mexico and Arizona, the locations of Park Service areas will be shown on forthcoming issues of state game refuge maps, and mention will be made in published game laws that Park Service areas are closed to hunting.

Southwestern Monuments Loan Library. One hundred ten publications were received during the report period. In addition to 63 books and pamphlets donated by the Director's Office, 24 periodicals, 4 books, 7 reprints, and 12 pamphlets were added to the library. No time was available for accessioning or cataloging these publications.

Southwestern Monuments Association. Books of the Association were in the hands of the auditor all month. A very thorough and complete job of auditing is being accomplished, thanks to the interest and generosity of J. A. Vanden Heuvel, of the Operator's Division. Incorporation papers for the Association were approved by the New Mexico State Corporation Commission effective July 13, 1943. All remaining copies of two groups of books issued to the Association were returned to the publishers in line with the Association's policy of handling books on a purchase basis only.

Status of Archeological Projects. Assistance was rendered the staff of Bandelier National Monument in completing the emergency excavation of a prehistoric site on the line of an Army road-straightening project. Authority was extended to the Custodian of Aztec Ruins National Monument to resume ruins stabilization activities.

Photography--Visual Aids. Several Kodachromes were taken at White Sands National Monument and at Carlsbad Caverns National Park for addition to the headquarters slide library. Black and white photographs were taken of mission reconstruction models in the Museum of New Mexico display rooms.

Office Visitors. Ranger Hendron of Bandelier National Monument and Custodian Faris of White Sands National Monument had official business with the interpreter.

Reaction of Visitors to the Interpretive Program as Influenced by Wartime Conditions. Reports from several field areas indicate that visitors, in general, are unhurried, interested in learning all they possibly can about the Service areas they visit, and apparently making the most of their visit. They express a desire to obtain all possible free and for-sale publications for their own use and to send to friends who are unable to make trips because of wartime conditions.

Unusual conditions at several areas have greatly increased public demand for interpretive services. At Bandelier, personnel of the U. S. Army's Los Alamos (Zia) project quartered in the Frijoles Canyon Lodge have no outside source of

entertainment and have requested illustrated talks and informative programs relative to the various features of the monument. Although there is some turnover of personnel, in general the audience remains the same, requiring that the same program not be repeated but that a series of talks be given. Illustrative material is inadequate. In addition, officers of the project have requested that the Custodian present one program each week at the project headquarters for personnel housed at the former Los Alamos School site. The USO at Alamogordo which provides entertainment for armed forces personnel at the air base adjacent to White Sands National Monument has requested illustrated programs both on the monument and for men in the hospital at the air base. Motion picture reels on national monument subjects with a projector for showing them have been furnished the Custodian at White Sands National Monument for this purpose.

Miscellaneous--Overhead--Routine. Thirty-seven letters were written during the report period, and all requests for information were filled. Travel report forms 10-157 for Southwestern National Monuments were checked for accuracy. The usual routine reports were submitted. Reports on estimates of printing needs for all field areas in the region for fiscal years 1944 and 1945 were coordinated and submitted to the Director.

Projects Planned for Next Month. A report of the studies of guide problems at Carlsbad Caverns National Park will be prepared and submitted. The report of 1940 excavations incidental to ruins stabilization activities at Tonto National Monument will be completed. If possible, Assistant Naturalist Steen will visit Walnut Canyon National Monument to determine building repair needs relative to the preparation and installation of temporary exhibits. Available supplies requested by Assistant Naturalist Alberts will be sent to Carlsbad Caverns National Park.

ARCHES, by Lewis T. McKinney, Custodian.

Visitors this month, 92; travel year to date, 768.

Many a drop of sweat (perspiration to you office GUYS) has rolled off from Harry and myself the last several days, with monument patrol, handling of visitors, installing gas pump and tank (with solid rock to dig in) and constructing a house for the water pump and light plant, plus several small items like replacing a culvert which disappeared overnite. This disappearance was caused by one of Utah's light showers in which you have 120 per cent runoff: 100 per cent water and 20 per cent sand.

Mr. Carlson and Mr. Davis from the Region Three Office were in for a day. Mr. Carlson was able to bring me a few fire swatters which will certainly come in handy if and when we have one of our grass fires. I have had a few old burlap sacks cached away for this purpose. But now I am afraid to drag them out in sight for fear of the local farmers lynching me for hoarding. I believe I have five.

A trip was made to Monticello to meet Carrol Miller and pick up a few items which were being brought over from Chaco by him for Arches. I guess Cal will be putting the blankets over the Bridges for the winter soon.

Roads are still passable but need blading. Several hard showers have left cars that a shovel is too small a tool to remove.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 791; travel year to date, 4104.

General. Another busy month has passed and we will soon complete another travel year. We have had quite a lot of travel and our visitors seemed to be eage to learn all they could about the monument and they are not of the hurried type we have received in former years. Ranger Mahan was on annual leave July 22 to August 8, inclusive. The purpose of the leave was for a medical check-up for Mrs. Mahan. However, we are glad to report she is much improved and she benefitted by the trip in many ways. Ranger Madson was on sick leave two days and annual leave one day during the month. One official trip was made by the Custodian to Hovenweep, Natural Bridges and Yucca House National Monuments, leaving Aztec on August 19 and returning on the twenty-second.

Signs. Three road signs were put up again after first receiving an application of linseed oil and three coats of paint, which was previously reported.

New Equipment. A plumber's vise was received by transfer from Platt National Park. New plates were received for pickups 1228, 1235 and 1254, Aztec Ruins, Hovenweep and Natural Bridges.

Maintenance, Improvements and New Construction. Much was accomplished on weed eradication and grounds cleanup. It seems that during growing season the weed cutting is a major project at this area. We have again started our water line replacement near the administration building. We were held up because of fittings for a time, and now we have the fittings to start the job, but have been held up because of our heavy visitor travel and insufficient funds to hire it done. However, we hope to be able to report this project completed at an early date.

NPS Visitors. McNeil, Collier--Chaco; McKinney--Arches; Redd--Natural Bridges.

Newsworthy Visitors. Mr. Simon Serna, Department of Education, from Mexico, was an interested visitor on August 9. A press conference was held in Aztec on the twenty-first and 20 members visited the monument in a group on that date. They were from Colorado and New Mexico.

Ruins Stabilization. Completion of waterproofing the Great Kiva roof, using heavy duty Zone fibred roof coating, weed eradication and drainage corrections were made here at Aztec. Our stabilization crew are back on the job and we will have something to report on wall patching and capping next month. A portion of the visitor trail in the ruins received some necessary repairs. Wall patching was in progress at Hovenweep by Ranger Madson from August 11 to 22, inclusive. (See the Hovenweep report).

Weather Statistics. Maximum temperature, 98 on July 30. Minimum, 56 on August 20. Precipitation .96 was recorded for the month. Precipitation was recorded on 17 days. We had 16 clear days, 13 partly cloudy days and 2 cloudy days.

Use of Monument Facilities by the Public. Seven hundred ninety-one people entered the monument in 232 automobiles, coming from the following states: New Mexico 225, Colorado 156, Utah 17, Texas 130, Louisiana 12, Indiana 6, Missouri 12, Illinois 7, Arizona 45, California 21, Kansas 24, Montana 5, Arkansas 2, Michigan 2, Nevada 1, Oklahoma 12, Georgia 7, District of Columbia 1, Tennessee 1, New York 4, Minnesota 1, Mississippi 1, Florida 6, Ohio 6, Washington 9, Rhode Island 1, Alabama 4, North Dakota 1, Wisconsin 5, Iowa 4, Mexico 1. Of the above number, 471 people were guided through the ruins in 97 groups, 457 people were guided through the museum in 94 groups. Total guide time in hours: 163-3/4. Personnel engaged in interpretive service: Miller 77½ hours, Mahan 44-3/4 hours, Madson 41½ hours. Guide permits sold, 402. Revenue collected, $86.57, which includes all permits sold and all federal revenue tax collected.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 1114; travel year to date, 3841.

August has been hot and dry. Approach roads have been generally rough and the portion through the Otowi Section has been almost unsafe to travel due to the extremely heavy traffic of large trucks. Travel has perked up over last month and some Sundays have almost equalled travel of pre-war days. On the fifteenth, 32 cars and 135 people gave us quite a crowd. We have been frantically excavating a ruin on the Otowi Section which lies squarely in the line of the new access road being constructed for the Army. Travel, Army activities and the fire season have kept all hands busy.

Twenty-one days with temperatures above 90° have made August a hot month. Maximum temperature of 94° was reached on a number of days. Minimum of 50° was recorded only once. .66 inches of moisture fell on six different days.

Roads have generally been dry and rough, but a cloudburst between headquarters and the Otowi Section badly damaged the highway on the seventeenth. As the state has ceased entirely to maintain this road, we had to repair it temporarily to make it passable.

The Army Engineers have let the contract for construction of the access road to the Los Alamos Project through our Otowi Section. Low bid of $367,000 on the section through the monument was submitted by Loudermilk Construction Company of Denver. Clearing of the right-of-way began August 23 and the contract calls for completion in ninety days. Bids will soon be opened for the construction of the remainder of the road and for surfacing. The Army has made available $1,500,000 for construction of the road from Los Alamos, The New Mexico State Highway Commission is cooperating with funds and personnel. The monument will benefit in that we will have to travel only 15 miles of dirt road to reach Santa Fe after the new road is built.

Several conferences were held with the engineers and contractor concerning alignment, location of the gravel pit, crusher site, road camp, and powder house on the monument. Since last month's report, the alignment was changed, necessitating the excavation of a ruin to prevent its destruction by the bulldozers. No help could be hired, so the attempt to salvage the ruin has been made with regular personnel, assisted by Archeologists Steen and Reed from Santa Fe. We hope to beat the heavy machinery to the ruin but it will be a close race.

Considerable time has been spent with the fire guards. The crew constructed 6-1/2 miles of access trail through the blowdown area this month. A trail was built from headquarters to Corral Hill, thence across Lummis Canyon to the rim of Alamo, and up the Alamo Ridge to the South Mesa "Y". The trail to the Rio Grande washed out by a flood in July was rebuilt and 6-1/2 miles of the Rio Grande river trail were repaired.

The Army installed a 5-KW auxiliary power plant during the month. The Custodian and General Mechanic Valencia completely overhauled the 5-KW D.C. plant. We now have a power plant to run our shop equipment. The rangers and lookout completed more signs and maintenance was kept current.

National Park Service Visitors. Regional Landscape Architect Kell and Regional Engineer Lassiter, on August 9.

Regional Archeologist Reed and Archeologist Steen spent several days aiding in excavation on the Otowi Section.

Regional Engineer Lassiter and Regional Chief of Planning Cornell inspected the Otowi Section on the twenty-third.

On the sixteenth a conference was held with Colonel Whiteney Ashbridge, Commanding Officer at Los Alamos, and Mr. David Hawkins, Associate Director of the project, concerning lodge and land use matters.

August 23, Regional Engineer Lassiter, Regional Chief of Planning Cornell, and the Custodian, representing the National Park Service, met with Mr. Loudermilk, the road contractor, and the resident engineer of the State Highway Commission,

Mr. Armstrong, on the Otowi Section and picked out locations for the gravel pit, rock crusher, camp, et cetera, that the contractor will need on that part of the monument.

August 20 a conference was held with Mrs. Frey and Captain Snyder of the Army Real Estate Suboffice to straighten out lodge problems.

Travel was up this month. A large part of it was repeat business from the Los Alamos site and personnel from Bruns General Hospital in Santa Fe. The visitors were cared for in 118 ruins trips and 48 museum talks. Time spent in interpretive contacts was as follows: Eden 116 hours, Hendron 46 hours, Kendall 54 hours, and Thomas 47 hours.

Personnel. Ranger Eden took 5 days annual leave occasioned by the death of a relative in Colorado. Junior Fire Guards Veronico Roybal and Jerry Trujillo were terminated August 7. Junior Fire Guard Opal Kendall went off duty August 22, and Ranger Kendall was terminated at noon August 22. Mr. and Mrs. Kendall returned to Arkansas where they will resume their school work.

CANYON DE CHELLY, by M. M. Guillet, Custodian.

Visitors this month, 61; travel year to date, 580.

Weather. The most important factor and the one which has affected the work here more than any one thing has been the exceptionally heavy amount of rainfall. We had been praying for rain but must have overdone it, because when it did come it came all at once. One the evening of August 10 we received 1.77 inches all in the short period of thirty-five minutes. The drainage ditches around the house filled faster than the Custodian could keep them open and the flood came at us from three directions. I was able to keep the quarters from being damaged by routing the greater part of the deluge through my office, but even at that we had a half inch of water on our living room floor.

An old Navajo sheep corral located a half mile above quarters was cleaned and all the material, plus whatever trash could be picked up on the way, was deposited on my doorstep. The silt carried down raised the ground level considerably. A few more rains like this one and I will be able to show the visitors a pit house instead of merely describing one.

A wall of water hit the storage hogan and went right on in and made itself at home. Little damage was done as the roof did not leak, but in order to keep it drained I had to tunnel under the walls on the downhill side. The rain also did considerable damage to the roads and to the trail into Whitehouse.

A great deal of water came down the canyons but no damage was done to any of the ruins. The protective work done by Soil and Moisture served its purpose well.

Again on the morning of the twenty-fourth it cut loose and rained 1.5 inches, but over a period of about two hours, so the runoff was not as fast and no great damage was done. This made a total of 4.4 inches for the period which, as nearly as I can tell, is the record. The maximum temperature was 99 degrees on July 29, and the minimum was 50 degrees on the twenty-fourth of August. The warm season is over now and the maximum has been running around 85 degrees for the past two weeks.

Maintenance. The above mentioned rain nullified all previous work done on the roads so it was necessary to do considerable work to make them passable and some work was done on the more badly damaged parts of the White House trail.

We had just about finished with the first coat of plaster on the custodian's residence when the rain promptly and completely removed it. Several trial mixtures had been placed on the patio wall for test purposes. One mix seemed to repel the water pretty well, so we "girded our loins" and started over again.

The residence and part of the garage were done when the second rain hit. Most of this coat stayed on but some patch work will be necessary.

The loose dirt roof of the storage hogan was covered with a coating of adobe and bitumels as per instructions. This repelled the water well but cracks are appearing and at present we are putting a second coat over the whole building. The grounds around headquarters have been cleaned of the greater part of the debris, and drainage systems have been cleaned and enlarged to take care of any emergency until we have time to work them over thoroughly.

New main bearings were placed in the pump engine and the pumphouse was cleaned of all debris and silt deposited by the flood.

On July 30 a trip was made to Gallup for the water pipe transferred from Tonto. We completed installing the pipe line on August 2, giving the pipe a coat of aluminum paint and then coating it with asphalt. This should prove to be a good preservative but only time will tell.

A little time was found to work on the cultural chart for the multiplex.

Visitors. A party of four visitors came by plane to Many Farms as the field here was too soft. The rains had rendered the canyons passable and, as I needed to inspect the ruins to see if any damage had been done, a tour was made up Del Muerte to Mummy Cave one day, and up de Chelly to Spider Rock the next. I took this party with me, and as a favor I was given a ride in the plane over the country. The pilot also took up many of our friends from Chinle and Many Farms.

We had a total of 61 visitors from seven states. Of these, 39 were attended by guided trips or informational talks. The rest were unattended visitors who came in by the Sawmill road and stopped at the Whitehouse Overlook on their way in, and some were run-arounds.

War Reaction. Travel continues light, but the Hopi snake dance held on August 22 was well attended as usual. Visitors were reported from distant states so it is apparent that the war did not affect it a great deal. Some of the visitors stopped here en route and on the way back.

We had one visitor from the armed forces.

There were five conducted trips comprised of 20 visitors and 13 informational talks at headquarters attended by 19 visitors. The time spent on guided trips totaled 15 hours and 10 minutes, and that at headquarters 5 hours and 20 minutes.

General. Temporary Ranger Simon Joseph Thomas and his family left here the eve of August 23 for Santa Fe where he will resume his duties as an instructor in the schools of that city.

At 12:30 a.m., August 15, a group of Navajo Indians came to the Custodian for help. Their father who lives nearby was having a bad lung hemorrhage and was not expected to live till morning. They were all grief stricken and, as Cozy McSparron had gone to the ceremonial, were unable to get anyone to go after a medicine man or relatives who lived between here and Sawmill. I called the Indian Service at Chinle but no one was able to go, so I took it upon myself. I was out all night stuck in a mud hole, but got home about noon the next day with the Indians. I was in time, for the old man did not die for two days. Since then several of the Navajos have come to me with thanks, and I believe a great deal more good will toward the Service was created.

Projects for Ensuing Month. I hope to finish the plastering of the house and will get the hogan in shape with another coat of bitumels and adobe as well as an adequate drainage system. There will be more road repair and cleanup work around headquarters, then, if there is any time left, we'll start getting in our wood supply for the winter.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 3,000; travel year to date, 10,400.

Weather has been very fine throughout the month. About the middle of the month we had several fine rains, totaling about five inches altogether for the month. A splendid crop of grasses, but rains came a little too late for good crops. Lowest temperature, 65°, and the highest, 97°.

Roads on the monument have been kept in fair condition until the past few days when the Custodian has been too busy to keep maintenance up to par. It is expected the roads will be overhauled this coming week and put in first class condition again. There was some damage done during the heavy rains to the roads but none that can not be repaired within a very short time, and in the meantime temporary repairs have been made and the roads have been kept passable at all times.

I hope you will excuse this brief report, as the Custodian is ninety per cent sick with overwork and hay fever.

CASA GRANDE, by A. T. Bicknell, Custodian.

Visitors this month, 399; travel year to date, 7295.

Use of Monument Facilities by the Public. Two hundred forty-three visitors were guided through the Casa Grande in 60 trips totaling 2514 minutes; in all, 3768 minutes were spent in guiding visitors through the ruin and the museum. Of these visitors, 58 were members of the armed forces. Twenty-six people used the picnic area; 130 visitors entered the monument without making the trip to the ruin.

Travel for this fiscal year has decreased 27.7 per cent from last year; but travel from the armed forces is up 50.7 per cent for the fiscal year.

Weather. August has been normally "warm" and humid--probably the humidity has been a little above normal; intense summer rains have been spotted over a good deal of the southern part of the state, causing damaging floods in some areas.

High temperature at Casa Grande Ruins was 117° on July 25; low was 71° on three dates; 17 days the temperature has been over 105°, 5 days under 100.

Precipitation has totaled 1.3 inches, in six separate storms; the long drought was broken on July 25 with .2 inches of rain. Only 12 days of the report period have been clear.

General. Custodian Bicknell and Mechanic Stonehocker delivered office furniture to the room loaned by the Forest Service in Tucson for emergency use of Saguaro National Monument. On this trip the old Organ Pipe pickup was loaded on the truck for transport to the headquarters shop, and Custodian Bicknell drove back USDI 1217.

Roving Ranger Sowers transferred in the roving ranger pickup on the thirteenth.

Custodian Supernaugh and Ranger Wilson of Organ Pipe came in the dump truck on the twentieth for material for Organ Pipe.

On August 1 Superintendent Richey and Superintendent White of Sequoia spent a few hours at the monument.

Eleven rolls of barbed wire were shipped to Arches on the thirtieth; a gasoline camp stove was expressed to Aztec on the second for use at Natural Bridges. Association books called for by publishers were shipped on the ninth. On the same day the Custodian packed and sent some books bought by a visitor--an extra service given when $13.50 worth of publications is purchased!

The Pinal County Board of Supervisors furnished this office with the amounts of county revenues for the fiscal years of 1940, 1941 and 1942, in line with the request from your office; copy of their letter has been forwarded to you.

We have received no further information regarding per diem wage rates as of September 15, 1942.

Maintenance. During the month the former interpretational office was partitioned to accommodate the pottery storage and the carpenter's shop; this necessitated moving the pottery storage shelving. Some cleanup and rearranging remains to be done, but the partition is now completed and the door hung.

There was a good deal of maintenance on plumbing during the month: a water valve in the pump house was repaired; two fire valves were dug out, repacked, and new seats made (seats in the other fire valves are in need of replacement); one cut-off valve was repaired.

Some work was done on a refrigerator and the washing machine. Routine maintenance was accomplished.

Projects for Ensuing Month. Cleanup and rearranging in the carpenter's shop and pottery storage; work on fire valves.

Personnel. Ted and Celia Sowers spent the night of the thirteenth here; Ted was in the process of trading in his roving ranger pickup for an Army jeep--or at least a pair of GI shoes. They left in their personal car and trailer, via northern Arizona monuments, for Denver where Ted expected to be inducted on August 20.

Bill and Ann Supernaugh visited us on the seventeenth, on their way to Organ Pipe, where they hope to be "at home" for a while.

Natural Phenomena. The bats of the Casa Grande, especially during a warm, humid August, are apt to create a more lasting impression on the visitor than the Big House itself. That that impression is not a particularly pleasing one, no one who has ever been in a 'dobe building with a few thousand bats needs be told. One visitor, while still outside the compound walls, began tactfully, "Do you have buzzards here?" Then the ranger said yes, we'd probably see some soaring overhead, he continued, "No, I mean right here--I mean is there anything dead here?" Most visitors are pretty brave about it, at least until we reach the not-well-ventilated central room, where a few handkerchiefs come out to cover noses and occasionally a person with a sensitive olfactory nerve makes a hurried dash for outside air. The sight of several hundred bats, a squirming mass which seems about to expand from every crack in the walls, is fascinating. So are impromptu experiments, such as, can bats fly through a crowd of people in the daytime without touching anyone? (Fortunately, they can.) In short, the bats are now very numerous, very much in evidence, and not very attractive. The action of thousands of them, climbing, pushing, incessantly moving, in the cracks of the Casa Grande must, over several years, have a definite effect on the width of those cracks. Our friend the whipsnake seems to have deserted us lately--but at best, he was good for only one or two bats a day.

The outlook for the infested young mesquite trees looks brighter; two of them, badly infested, were destroyed, and the others seem to be doing all right.

Three species of birds not seen during the past summer months are on the monument now: the Gilded Flicker, the Desert Sparrow, and the Verdin.

CHACO CANYON, by John J. Collier, Ranger.

Visitors for the month, 238; travel year to date, 703.

This month 238 visitors came to Chaco Canyon in 79 cars. The states represented were Colorado, Arizona, California, Texas and New Mexico. Business reasons brought the visitors through Chaco Canyon. Only nine stayed to see the museum and

ruins, and formed three parties. Custodian McNeil spent 70 minutes with one party and Ranger Collier spent 2 hours and 50 minutes with the other two.

The weather has been predominantly Chaco weather this month, but it didn't prevent any of the visitors who chanced to come this way from enjoying every minute of their stay. The total precipitation for the month was .89 of an inch. The warmest day the thermometer reached 97, and the coolest it recorded was 52.

During the month the Custodian and the Ranger did a thorough job of grading both entrance roads and in rearranging the warehouse and shops so that materials and tools could be found without too much loss of time. Ranger Collier spent seven days in completely rewiring the custodian's residence, using BX cable, outlet boxes and installing separate fuse boxes at a central point for the office and residence. The office file was also completed by the addition of new triangular tab folders to replace the old type. (If you want to find something in a file, come to Chaco!)

Several business trips were made during the month. The Custodian went to Gallup to get a pipe threader and cutter from El Morro, and the Ranger hauled a big motor to Aztec for Arches National Monument, and brought back the long-looked-for water pump and motor that has been badly needed at Chaco for some time. If anyone wishes to know just how to unload a 400-pound motor from a big truck single handed, Cal Miller definitely has a system.

Ranger Collier was left in charge the latter part of the month while the Custodian took a few days of annual leave in order to visit at his home in El Paso. During his absence the ranger kalsomined two rooms in the residence, finished papering the museum and office, patrolled the north part of the monument, and catalogued 89 books with 279 cards for the Chaco Canyon library.

Next month will find the seasonal ranger gone and the custodian alone with several two-man jobs that time did not permit to be completed while the ranger was here.

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month, 348; travel year to date, 3019.

Weather. A total precipitation of 11.70 inches during June, July and to date in August has created the best growth of plant life this region has experienced for many years. The followers of "If and when it rains" have a good argument concerning regions that appear overgrazed during the dry periods, if one examines those same areas dollowing an abundance of moisture. A heavy storm occurring on the twenty-second of August politely informed us the engineers do not always correctly estimate the runoff from our little canyons. This storm was over the Rhyolite watershed and, after filling the culvert in front of headquarters, lapped against the steps leading from the parking area to the headquarters building, causing the loss of much surfacing from the parking area and roadway, besides cutting away some of the landscapers' work. From sight observation it is estimated the culvert is about one-half big enough.

Visitors. Travel continues to show a decline, especially compared with last August as at that time we had two battalions of field artillery stay overnight with us. The placing of New Mexico in the three-gallon bracket, which aroused a bit of anger, not so much from the loss of a gallon but ranking the citizens with Texans, created an upsurge in gasoline sales by the local service stations. One station in Bowie claims a gain of forty per cent in sales. Rationing in the border towns doesn't have much effect as one can get all the American gasoline one wants in Mexico. This probably accounts for our heaviest travel coming from Douglas and Bisbee.

The Faraway is experiencing one of its best seasons this year. In fact there is a tendency to forsake camping and use paid facilities, indicating more money in circulation. Horseback visitors continue to show an increase. This increase is not completely shown on the travel figures, as much of it is reentry and is accounted for in "Other Visitor Day Use".

Inspections. Superintendent White accompanied Superintendent Richey on an inspection of the area July 26. It is always a pleasure to hold conversation with Colonel White, and it gives one a bit of pride in being in an organization with a man of his caliber.

Personnel. The Custodian took annual leave from August 4 to 17, inclusive. Peter N. Windes was terminated from the Jr. Fireguard position effective noon, August 8. This has been the earliest termination of the fire season since I have been here during the past eight summer seasons.

Maintenance. The excessive storms have caused some damage to the roadway and parking area at headquarters; this is being repaired and repairs will continue into next month. The trails in upper Rhyolite and Sara Deming Canyons will need some work. With the exception of Sundays, the Custodian will aid in the maintenance of this emergency damage.

King-of-Lead Mineral Access Road. Part of one day was given in cooperation with the Forest Service in obtaining an easement for the proposed road across the property of Peter N. Windes. Due to the regulations curtailing the use of gasoline, the Forest Service requested this service by letter. At least we aided in saving one nickel.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 76; travel year to date, 112.

Weather. We have definitely decided we wouldn't trade our grand summer weather for that of some of the Arizona monuments. Maximum temperature, 93° on July 29; minimum, 47° on August 20. Precipitation, 2.42 inches.

General. Our monument visitors show an increase again this month. However, I think the cut in the value of gas coupons will cause a noticeable decline in travel. At least we haven't had any visitors since that went into effect.

The Custodian took a short vacation the last of July, and visited Walnut Canyon, Tuzigoot, and Montezuma Castle National Monuments and Montezuma Well. We also enjoyed a pleasant visit at the Homer Hastings' home at Montezuma Castle.

Use of Monument Facilities by the Public. Seventy-six visitors arrived during the month, from the following states and departments: New Mexico 61, California 7, Army 8. We had 17 conducted tours around the rock with a total guide time of 26 hours. Personnel engaged in interpretive services: George Baxter, 16 hours, 45 minutes; Hazel Baxter, 30 minutes; Obie Northen, 8 hours, 45 minutes.

NPS Visitors. Charles A. Richey spent a few hours at the monument on August 7, inspecting the dam at the water pool, and discussing other problems with the Custodian.

Maintenance, Improvements and New Construction. Cleaned filter and water pipes and now have running water in the house once more. Spent one afternoon shoveling the remainder of last winter's coal into the coal bin. Tore down old signs where monument road turns off highway, and painted and put up three new signs. Built foundation for storage room. Started construction of ranger cabin and storage room. Destroyed old cellar, salvaging best timbers to use in ranger cabin.

Projects for Ensuing Month. Continue work on ranger cabin. Get winter supply of coal hauled.

GRAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month, 75; travel year to date, 400.

Continuing and Routine Projects. The first part of this report month, this custodian was again on special assignment at the Region Three Office, helping the clerical force. On return to the monument area, August 9, he traveled via Albuquerque where pickup of radio batteries for Chaco Canyon National Monument was made. The remainder of the period covered routine makeup work, etc. Some time and thought were given to the preparation of the report on the early water systems on the monument. It is anticipated that several days in this coming period will be devoted to research on the subject in the libraries at Albuquerque and Santa Fe. A number of additional Kodachromes were found for both monument files and headquarters naturalists. Some weeding was accomplished with the scythe along the shoulders of the entrance road. Maintenance and repairs were accomplished on USDI 1441. Part of one day was spent in searching diligently over the country around Pueblo Pardo ruins for any traces of irrigation ditches or storage tanks--none were located with any satisfaction. Contact work was kept up on those visitors arriving during the period when the Custodian has been on duty--nevertheless a number of visitors have been missed who have been, for the most, locals who have seen the ruins many times.

Continuing Projects. Under this category, seemingly, are the several interpretive reports in various states of completion. These will entail a certain amount of library research beyond the limited means available at the monument, but it is anticipated that these will slowly take shape and will add to future interpretive planning.

HOVENWEEP, by Edward L. Madson, Roving Ranger.

Visitors this month, 14; travel year to date, 100.

Weather has been exceptionally nice and cool. Occasionally a high wind, but generally just a cool breeze. On August 22 a heavy rain fell.

Inspections. Cajon area was inspected August 19. There was no evidence of vandalism, and the fence was in good condition. August 20 the Hackberry, Holly House, and Horse Shoe Ruins were inspected. A few signs and posters had been blown down but otherwise everything was undisturbed. August 19 and 20 Custodian Miller inspected the stabilization work at Hovenweep Castle.

Stabilization. A considerable amount of work was completed at Hovenweep Castle Ruins. Two large and two small gaps were repaired on the building facing the monument entrance. An outside facing was put in a large gap in the Square Tower wall. One large gap and one corner of the Castle were repaired. A mortar consisting of dirt, sand and bitumuls was used throughout all the stabilization, and all masonry joints were well wiped, so the mortar is not too noticeable.

Visitors. Fourteen visitors registered at the monument. They came in four cars--two from Utah and two from New Mexico. Two of the visitors (Biological Survey employees) walked from a camp about two miles distant. Four visitors were contacted at the headquarters area. Time spent with them was three hours.

MONTEZUMA CASTLE, by Homer Hastings, Custodian.

Visitors this month, 322; travel year to date, 2536.

General. The drought reported last month broke with a bang on the afternoon of August 2 when a thunderstorm centering on the monument brought 2.96 inches of

rain in four hours. The electric power line failed and, when lightning burned four telephone poles near the monument, that service was also interrupted for the entire community. On the next day an effort was made to find a telephone in working order to call a repairman for the power line, and when Oak Creek was reached near Cornville, traffic was tied up by a bridge under repair and the creek was too high to ford. However, a foot crossing was made and a telephone call brought a repairman by a roundabout route and service was soon restored. Telephone service was not restored here until the evening of August 14.

Another storm of greater intensity occurred on August 11 when 1.39 inches of rain fell in one and one-half hours. Although this storm and the previous one did little damage to the Castle, considerable damage was done to the Lower Ruin or Castle A, and to the trails. The Castle trail was converted into a gully and several truck loads of silt were washed onto the parking area. About two inches of rocks, mud, and silt were also washed into the ladies' restroom.

For the report month a total of 5.30 inches of rain has fallen--1.02 inches more than the normal yearly precipitation. The maximum temperature was 109° on July 26 and 30, and the minimum was 58° on August 23. The mean maximum was 99.77°; mean minimum, 65.29°.

Administration. Ranger John E. Clark transferred here from Carlsbad Caverns National Park and reported for duty at 1 p.m., August 14. He arrived in time to get introduced to a shovel while the trails were repaired, and he has been adapting himself readily to our routine. Ranger Clark was on relief duty at Tuzigoot National Monument on August 19 and 20.

Superintendent Richey paid the monument a visit on August 5 and made a thorough inspection of the area.

Two trips were made to Montezuma Well with Park Service personnel.

One copy of "Birds in the Garden" was returned to the publishers as directed by the Executive Secretary, Southwestern Monuments Association.

Maintenance, Improvements and New Construction. Rain damage near our entrance was repaired and culverts were inspected and cleaned. A gully that had been the Castle Trail was filled with material raked in from the sides and thirteen wheelbarrow-loads of gravel for surfacing were carried in a bucket from the foot of the trail.

Rust was removed from our fire tools and they were oiled and placed in the museum basement where they will be close to our visitor trail--the greatest source of fire danger.

The pickup was washed and polished. The old license plates, USDI 1252 were removed and replaced by I-13052.

Walls in both kitchen and bathroom and all woodwork in residence No. 1 were washed. Floors in both kitchen and back porch of this residence were given two coats of developer.

Use of Monument Facilities by the Public. Total cars 82, Arizona cars 66, total states represented 14. Total visitors 522, number of tickets sold 112, revenue received $32.02; members of armed forces admitted free 9, children admitted free 27; tax but no tickets 22, Park Service personnel 3. Our visitor count was 59 per cent of what it was for the same period last year.

Guide Service. Total contact hours, 72.25; Hastings, 62.50; Clark, 9.75. Ruins trips, 49 for 173 visitors; museum parties, 56 for 170 visitors. Information service for 26 visitors. There were five picnic parties totaling 25 people and one party of 5 campers.

Park Service Visitors. Superintendent Charles A. Richey, Custodian and Mrs. George W. Baxter from El Morro National Monument, and Ranger and Mrs. Ted Sowers.

Flora. Heavy rains have revived all vegetation. Creosote bushes are blooming at least half as much as they do in the spring and there are some blossoms on

mesquite, acacia, and mimosa. Purslane and alfileria are growing abundantly and both annual and perennial plants are bursting forth where seeds are sprouting.

Fauna. Three porcupines were discovered in a tree across the creek from our headquarters. It is hoped we have them in Kodachrome pictures.

Changing Trends in the Use of and Reactions to the Interpretive Program. For this calendar month a total of $18.80 in books and pamphlets have been sold. It appears that visitors are anxious to secure accurate information on the areas they visit and they often state they want something to send to a friend or relative who can not travel now.

Projects for Ensuing Month. Our heavy rains were not anticipated, so most of the projects listed last month were postponed and will be governed by the need for repair work this month. More work must be done on the trail through the Lower Ruin and badly eroded walls must be repaired. The boundary fence must be patrolled and barriers at the water gaps replaced. It is hoped the Custodian can take some annual leave in September and during this time Ranger Clark plans to complete painting the exterior of the museum and paint the picnic tables.

NATURAL BRIDGES, by Thomas C. Miller, Custodian.

Travel this month, 31; travel year to date, 148.

General. This area was inspected by the Custodian on August 20 and 21. This inspection trip was made via Monticello, Utah, where I checked out a load of equipment to Custodian McKinney for Arches National Monument. The freight consisted of a water pump and other equipment for the Arches. While at Monticello I called on the County Treasurer, San Juan County, and secured some information that was mailed to your office by special report regarding appropriations.

Heavy rains in the Natural Bridges section caused a lot of damage to the visitor trails, but lessened the fire hazard over which we have been greatly concerned. Several complete sections of trail between the headquarters area and the Kachina Bridge were completely destroyed, leaving vertical banks several feet high. Temporary detours had been made in these washed-out sections by Wiley Redd, making the trail passable but very rough. The trails in that portion of the monument are badly in need of some permanent repairs and drainage. A small section of the road near the headquarters area was badly damaged and had been repaired by Wiley by using the pickup the latter part of the month. One picnic table was packed by horse three miles to the Kachina Bridge picnic area and set up during the month. The headquarters area was spotless and shows evidence of a lot of hard work and good judgment in its arrangement.

Use of Monument Facilities by the Public. Thirty-one visitors drove over the 50-mile-long approach road in 8 automobiles, coming from the following states: California 3, Colorado 3, Illinois 1, New Mexico 5, Ohio 6, Utah 12.

All visitors were contacted and received information or guide service or both. The 9-mile trail trip to all the bridges was made by four groups of visitors numbering 17, which is a high percentage for a long trail trip. Guide time in hours, 29.

Equipment. An inventory of small tools and equipment was made by the Custodian and Mr. Redd.

Projects for the Ensuing Month. Mr. Redd will be checked out for this season early in September unless funds are available to repair the trails and if that is the case he will be retained for a short time to complete the job.

NAVAJO, by W. W. Wilson, Custodian.

Visitors this month, 11; travel year to date, 56.

All visitors were conducted to Betatakin Ruins. They came in three cars in two parties. Three were geologists, one in the Army. One party of five camped overnight. It was the first time in these parts for all of them, and the desire to come again and spend more time was expressed by them all.

Weather. The drought was broken at long last. The precipitation for the period measured 1.6 inches plus a trace several different times. Much thunder and lightning during the month. Only four clear days this month, the rest were either cloudy or partly cloudy. High was 94° on July 29; low was 51° on August 24.

Roads. To be expected following several rains: rough but passable.

Maintenance, New Construction, Miscellaneous. Inspection trips were made to Keet Seel and Betatakin. No trespassing at either place. Flash floods in the canyons have not improved trails. Several days were spent on the Betatakin trail. The drains are fixed now so that the trail won't wash out so easily. Some work was done on the main road. The underground gas tank has been given a coat of tar paint, and has been lowered into the hole. The usual maintenance and office work kept up to date. Was glad to see Superintendent Richey in Flagstaff early in the month, and we're looking forward to his coming up here.

Projects. The principal continued project is to complete the installation of the underground gas tank and pump. More trail and road work are in the offing. Inspection trips, maintenance and office work will be kept current.

ORGAN PIPE CACTUS, by Bates E. Wilson, Acting Custodian.

Visitors this month, 4900; travel year to date, 45,[illegible].

Weather. The WETTEST, DRIEST and HOTTEST weather in the history of Ajo's US Weather Bureau came all in one month. The storm of July 30 through August 2, 4.26 inches, set a new record, broke the driest spell ever seen even by oldtimers and pushed the thermometer down below normal after the hottest month on record.

Travel. A very small decrease was shown by the travel count and this was probably due to all roads into this country being washed out for two days.

Roads. The dips on the new road stood up very well under the heavy floods and with plenty of moisture, Mr. Cox has put the surfacing in excellent shape. I found out the hard way that it is not a practical idea to get off this main road (thinking of stamp 10) when it even looks like rain.

The bid has been let for the oil surfacing and, although no award has yet been made, work should start soon.

Wildlife. One trip was made to the head of Alamo Canyon where no fresh sheep sign was seen and all the white-wings have finished nesting. I was accompanied on this trip by my son Tug, fifteen Boy Scouts, Troop [illegible] and two scoutmasters. It was a long trip for the boys, but they were spurred on by the thought that they might see the mountain lion.

General. Bill and Ann Supernaugh arrived on the eighteenth and are now settled in one of the apartments at the Luke development. Everybody is glad to see them back and hopes that the Army won't discover its loss.

One official trip was made to Casa Grande to get material for Organ Pipe. One more trip with a big enough truck, and Al and Gene won't have to worry about the warehouse.

Projects for the Coming Month. The big job is to get as much done on the temporary quarters before I leave for the Seabees as possible. I hope to go in soon, but it is hard to tell exactly when my orders to report for duty will come.

The boundary fence is in bad shape with about one-half mile of water gaps washed out. Quite a bit of wire is needed for this repair job.

SAGUARO, by John Peavy, Custodian.

Visitors this month, 262; travel year to date, 5071.

Travel. A total of 69 cars have entered the monument, of which 30 were in-state, 32 were outstate, and 7 were Army vehicles. Guide time: John Peavy, 9 hours, 25 minutes; Marge Peavy, 5 hours, 15 minutes; and Ted Sowers, 35 minutes.

Weather. We have had intermittent showers almost every other day for the entire month. The heaviest rain fell on Sunday, the fifteenth, on which day we had over two inches in two hours. This rain caused considerable damage to the loop road. However, the vegetation is getting green, many flowers are blooming and many tardy annuals are appearing.

Roads and Trails. The loop road is in poor shape at present although considerable work has been put in repairing recent damage. The trails on the mountain have washed badly, although we have accomplished some trail work.

Manning Camp. Most of the fireguards' time this month has been spent in improving and repairing Manning Camp and the lookout tower. Seven pack trail loads of hay and building materials have been sent to Manning Camp. Hay needed to complete the fire season and to provide for a small supply for emergencies during the fall and winter are stored in the barn. The lookout tower was completely tightened. We are waiting for a sunny day to paint the tower. Rock buttresses, recommended by Superintendent Richey, to reinforce the front of the cabin, have been completed. Chinking of logs is partly done and the cabin has been partially reroofed. Screen doors have been constructed for the cabin. Doors and broken window panes have been replaced. We didn't accomplish as much hay packing as intended due to the rainy weather and the Army's use and consequent temporary crippling of most of the pack string attempting to pack bomber parts and fliers' bodies out of the Tanque Verdes.

Fires. We have had several lightning storms during the month but all hot strikes were rained out before the fireguards arrived on the scene. We have reported one fire in the Tanque Verdes due to a bomber crash at 10 p.m., July 30.

NPS Visitors and Inspections. Colonel John R. White, Superintendent of Sequoia National Park, and Superintendent Richey arrived on July 28. We rode up the mountain on the twenty-eighth to review the Saguaro fire of June 6. Superintendent Richey stayed at Manning Camp an extra day, getting the lay of the land and inspecting physical improvements. Superintendent Richey returned to monument headquarters in the evening, July 30. Many improvements for Manning Camp were recommended and are being instituted at the present time.

7-28: Gene Stonehocker and Al Bicknell arrived with USDI 1225 and furniture for our office in the Post Office Building.

8-5: Gene Stonehocker arrived with USDI 1221 and returned to Casa Grande with USDI 896. Gene transported lumber and building materials to be used in repairing Manning Camp.

Improvements at Headquarters. Bill Supernaugh and Ted Sowers redecorated the living room and kitchen on the seventh.

A platform was built for the water tank to be stored when not in use. The mailbox that was knocked over by a wild driver was replaced in a new and less vulnerable location.

Signs. All fenced portions of the west and north boundaries were posted. Signs were replaced on the Colossal Cave road. The NYA sign at the junction of the Benson highway was removed and taken to headquarters due to the fact that Wilmot road is closed for Army use.

Ranger Service. On August 13, Ranger Sowers left for the armed forces. Bill Supernaugh left for Organ Pipe Cactus National Monument on the seventeenth.

New Equipment. I received a new SX type radiophone on the fourteenth. This set is to be used to maintain contact between monument headquarters or the tower and going fires. The set was not equipped with batteries.

USDI 1225 was transferred to Saguaro or use by the Saguaro ranger.

Office equipment and furniture were transferred from Casa Grande to the Post Office Building in Tucson for our office there.

Closing. At present, we are doing necessary maintenance and packing in preparation for closing Manning Camp for this season. We have had a total of four bona fide visitors at the camp this month. The fire danger is down at this time and vegetation burned, scorched and otherwise, is showing signs of life.

SUNSET CRATER, by Philip F. Van Cleave, in Charge.

Visitors this month, 664; travel year to date, 2,875.

The entrance road from Highway 89 was fairly well closed to traffic for the four days starting August 7, with a deep mud-hole extending about a hundred feet along the road. However, visitor use was high during the latter weeks of the month which more than made up for the slightly slow start.

An inspection trip was made to the crater on August 10. Eight antelope were seen just outside the monument boundary between the crater and the highway.

TONTO, by E. C. Gipe, Custodian.

Visitors this month, 183; travel year to date, 2699.

A total of 183 visitors came to this area in 56 cars. States represented: 15. Cars instate, 29; outstate, 27. One person came on foot, and there were 20 members of the armed forces. Ruins trips, 25, with 30 people; museum groups, 51, totaling 168 people. Informational contacts, 16.

Personnel Time. Custodian, 44.6 hours.

Visitor Reaction. Visitors are getting fewer and the desire to climb the hill in the hot afternoon sun, declining. The majority of the cars arrive with their radiators spouting steam and boiling water, and the water pail is in great demand. Most of them are pretty well satisfied with what we have to offer, but one woman thought we should not have pictures of anything that could not actually be seen in the ruins and was quite indignant that there were no pictures of the corncobs.

Weather. The extreme heat continued all the month but there was more cloudiness than usual and three grand rains.

General. The rains eliminated the fire hazard and benefitted the range tremendously. The trees and shrubs are putting on new growth, many of the flowering shrubs are blooming for the second time, and there are some new flowers not seen before. Everything is intensely green and the country is more beautiful than in the spring.

Two business trips were made to Globe this month and the usual trips for mail to Roosevelt.

I could not use the pickup for a while as rats made a nest on top of the engine, bringing in some of everything, including chunks of dirt which they tamped down snugly around the spark plugs. It took some time to remove the grit and all the samples of what the country affords.

Maintenance. Considerable topsoil was washed from the road and trail during the storms and I have repaired about as much as can be done by hand. While the ground was softened by the rain I removed a lot of ragweeds from the parking area

and around the steps as many people complain of being alergic to it and don't see why we have it there.

Wildlife this month includes the personnel. There is a bumper crop this year of everything that creeps, crawls, leaps and flies, and they all want to live with us. If discouraged at one inlet, the formation just moves over to the next crack and pours in.

Nice place here, though.

Projects for the Ensuing Month. There is considerably more work to be done on the trail and work on the quarters always goes on.

TUMACACORI, by Ray H. Mattison, Ranger.

Visitors this month, 337; travel year to date, 4495.

General. The long-delayed "rainy season" began with a deluge on July 30. The drainage system along the highway being inadequate, the water poured into the parking area and along the service road, flooding the monument and leaving considerable debris. Fortunately, not a great deal of damage was done. The rains have changed the atmosphere and the hills along the valley are green again. Range conditions are very much improved. The nights are considerably cooler.

Visitors. Three hundred and thirty-seven visitors stopped at the monument and, of these, three hundred thirty-one were conducted through the mission ruins and museum. On August 1, 46 soldiers and WAC's from Fort Huachuca visited the monument. Total contact time, 55 hours. Of this time, Custodian Caywood spent 21 hours, 40 minutes, and Ranger Mattison spent 31 hours, 20 minutes.

Personnel. Custodian Caywood departed on annual leave August 20 and plans to return September 6.

NPS Visitors. Ted and Cecelia Sowers and Ann Supernaugh visited the monument on August 10.

Projects. Several days were spent in cleaning up the debris resulting from the rain of July 30. Dirt has been hauled to fill in the space between the south boundary wall and the newly-built stone retaining wall along the adobe pit. Asbestos roof covering has been applied to the custodian's residence. Much time has been spent cutting the weeds which have suddenly "sprung up" since the rains started. A limited amount of time has been spent in cataloging the Tumacacori library according to the Dewey classification system.

Continuing Projects. Weeds will be cut and hauled away during the coming month. Regular routine maintenance will be continued.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 415; travel year to date, 3198.

Travel. Tuzigoot soared above par for certain, this month, with a thumping 156 increase. However, nobody has been dealing out extra gas rations in the Verde Valley. On August 24 an Army unit gave a pow-wow and battle demonstration at Clarkdale to show the copper workers how their copper pets shot up in combat. That morning a steady stream of heavy trucks, jeeps and trudging soldiers poured in on the monument. That evening, when I flexed my sagging arches at sunset and figured the day's total, there had been 139 visitors in uniform, all contacted. The boys were great company, and by the job I had keeping them from taking the place with them, they must have liked it plenty. They carried away an awesome quantity of leaflets, maps and free literature, and if the sum of their questions were posed to "Information Please", the "experts" would swoon.

Tuzigoot was glad to welcome Superintendent Richey on August 6 and to profit from his consolation and advice. For once, no dirty-fingered urchin smeared our cases before Chuck arrived, the car hadn't just broken down in a mud puddle, and no rain had just washed down the ruins and caused weeds to jump up over the debris. THAT'S news. We were lucky again in having Park Service visitors when Ted and Cecilia Sowers dropped in a little later in the month, but this time circumstances were more in character: the Sowers' arrived immediately after a hellaceous thunder storm that left the roads a wreck, blew up our power line, and had us stumbling about by candlelight. It was swell to have someone share our predicament with us, and the rigors of the afternoon when the Act. Cust. and HCMP huddled amid an artillery barrage of lightning and thunder were soon forgotten. It was almost nine years since I had seen Ted and Cecilia back at the University of Denver, that well-known factory of SMNM personnel. See you in the Army, Ted!

Trends. We've had the Army, Navy, Seabees, Cadets, WACS, WAVES, SPARS, but not a Marine, male or female. Howzat?

Guide and Contact Service. Museum, 27 hours, 15 minutes. Field, 25 hours, 15 minutes.

Personnel Time. Acting Custodian, 51 hours, 10 minutes. Relief Ranger Clark, 2 hours, 20 minutes. Tuzigoot was glad to welcome the expert aid of Ranger John Clark who will provide relief for this monument. His station is at Montezuma Castle. Hope the brimstone air of the Upper Verde agrees with you, John!

Projects. The press of events lately has obliged the Acting Custodian to concentrate upon items high on our priority list. First is, of course, the continuing battle to keep water flowing to the monument, and two more breaks in the pipeline were dug up and clamped last month. At the monument, all free time, i.e., free from contact duty, has been taken up with annotating and filing the stabilization photographs. After a few more shots are taken this project will be wound up, and the last films submitted for developing and printing.

Severe rains twice occasioned considerable repair and repraveling of sections of road on and about the monument. Lightning put the power line out of commission once, but the damage was minor and was quickly repaired by the utilities company.

The aspect of the former reconstruction, now almost dismantled, which is viewed by visitors taking the ruins path, has been completely cleaned up and made reasonably trim. Since removing debris from the inside of the rooms and the north side of the unit is more than a one-man job at this time, it must await the completion of more urgent projects.

WALNUT CANYON, by Paul L. Beaubien, Acting Custodian.

Visitors this month, 702; travel year to date, 4322.

General. The rainy season hasn't amounted to much. Total precipitation since January 1 has been 10.26 inches, which is one-third short of normal. But last year, when there was only 9.90 inches for the entire 12 months was when we should have complained.

Visitors. Of the 702 visitors, 203 were not contacted, and it is estimated that 465 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Fish, 24; Beaubien, 31.

Inspections. Superintendent Richey was here on the fourth for almost a full day. It was the first time in years that I had that much time to talk problems, trying to give the idea that I was overburdened.

Activities. To account for the 53 man-days of the month for Ranger Fish and myself, three were spent on picnic area covering coarse cindered areas with screened cinders and earth and the construction of a dike to keep flood waters

out of the area. I took two days of sick leave; five were spent sawing wood for the next two winters; one day was spent reconditioning boundary signs; two were spent on forest fires just outside Sunset Crater National Monument's boundaries; 2-1/2 were spent on maintenance of the entrance road and obliteration of a short length of road by the picnic area; ten were spent finishing the construction of the repair shop (not including a paint job or the concrete floor, but including some work on tool racks and the hauling and leveling of cinders for the subfloor); six were spent painting the exterior woodwork of the ranger's residence, including the reputtying of several windows, the repointing of some rockwork, the repairing of leaks in the eave troughs and a lot of paint scraping; 7-1/2 were spent on the cleanup and the hauling or burning of trash, scrap lumber, scrap iron, etc., left by the CCC about the old log cabin and the new utility area; and the other 14 were spent on routine jobs of contacting visitors, office work and maintenance.

Changing Trends in Public Use, Etc. None were observed.

Projects for Ensuing Month. Mostly maintenance of buildings and cleanup.

WHITE SANDS, by Johnwill Faris, Custodian.

Visitors this month, 4,978; travel year to date, 54,264.

Although we show a slight drop under the same month a year ago, we have had a good month: 4,978 visitors in 925 cars from 56 different states. Of this number 2,544 were directly or indirectly "armed forces use".

Several minor matters have been settled by the visit of regional officers Dodge and Kell. All work has been kept current except building maintenance of which we can do only a limited amount, due to a shortage of funds, material and labor.

The weather has been exceptionally warm, with a high of 106° on July 29 and a low of 58° on August 16. Rainfall for the month totaled 0.10 of an inch. Fairly dry!

One trip was made early in the month to Las Cruces and El Paso. This was in connection with some land matters to be taken up with Dona Ana County officials and a check with the General Land Office in Las Cruces. The additional trip to El Paso was in connection with an electric motor being repaired, tires being recapped and supplies and material needed by the Monument. A trip was made to Dog Canyon with Dodge and Kell, accompanied by Ranger Inabenshue, that he might become acquainted with the area. We found considerable water and much mud, indicating a heavy rain in the mountains not too long before.

Considerable thought has been given the past month to some boundary changes. Several little kinks will have to be ironed out and then I will submit the whole thing to your office. To me it seems a solution for our problems and I trust it will merit consideration from your office.

The demand for literature continues heavy, and I guess it is a good thing we have a large supply.

No complaints have been received, no new construction or special improvement has taken place, and little maintenance work has been done.

The White Sands Service Company finds it harder to operate each month with their inability to get the variety of cards, candies, cold drinks, etc., but in spite of all this, business has held up exceptionally well.

A slight change was made in our lobby in that we placed the old ox cart (carreta) in the patio, giving us more space in the lobby. It seems strange right now, but I feel sure it will prove more satisfactory in the long run.

More rattlesnakes have been noticed this year than for some time. Joe has had three right in his yard.

Our slight decrease in travel is not as great as we had cause to expect. Soldier traffic holds up well, with new groups constantly coming and going.

No accidents were reported for our attention. One of two minor cuts and bruises have occurred in the Army groups but we were not called in. This week a girl's back was hurt and an ambulance was called in from the base, so we were not much more than even informed. Their ups and downs are kept pretty well to themselves. With these large groups we are taxed in caring for the picnic area. Considerable trash accumulates rather rapidly.

Not a great deal other than regular routine is planned for next month. September should bring with it the usual drop in travel; whether that will hold true this year remains to be seen. Several pending matters should be cleaned up next month. More work on lands, museum, public contacts by large groups, etc., will be planned.

Little reaction by the public on war measures is noted. Some complain that the recent cut in gasoline coupon value will result in decreased travel to our area, others claim that it will merely mean additional requests for supplemental rations, and so it goes. Soldiers say little and, from all press notices, do much, so I guess that is what counts.

WUPATKI, by Philip F. Van Cleave, Acting Custodian.

Visitors this month, 10; travel year to date, 626.

Activities. The past month has presented an interestingly variegated series of activities. The month started off with a literal bang when an AT-17 bomber-trainer crashed on the monument about six miles north of the residence, July 28. No injuries were incurred in the crash, and very little damage was done to the plane prior to its removal. Two days were spent in cooperation with the civilian wrecking crew, during which time the plane was transformed from a handsome piece of machinery to a pile of junk.

One day was spent on a non-reportable fire in the vicinity of Sunset Crater. Custodian Beaubien stayed on the fire the night of July 30; I relieved him the following morning.

Superintendent Richey dropped in for an inspection the morning of the third and caught me in a state of dishabille, shortly after my return from the site of the plane crash. I can truthfully say that I look forward to his next visit with fewer misgivings than I have in looking back upon his first inspection. Nonetheless, I am very glad to have gotten all the little suggestions and pointers that he was able to give in his short stay.

Weather. We have had nearly three inches of rainfall since the twenty-seventh of July. The "rainy season" is pretty well over now, and I am still discovering little items of damage. Several roofing timbers in one of the reconstructed rooms at the ruin gave way, necessitating a new roofing job. Work on that project is now under way. Getting back to the weather: we have had a great deal of cloudy weather which has kept the maximums from getting up into the scorching regions. The maximum for the month was 96°, although the temperatures for the last week in July ranged well above that.

Projects for the Ensuing Month(s). Road maintenance is going to be one of the big items in the next couple of months. I have already made arrangements for the hiring of Navajo labor and have made application for the use of the dump truck at Walnut.

Firewood must be collected, and in that there are to be relatively few trips to town between now and winter's arrival, I expect that I'll bring in a load of wood each time I have the room on my return from town. Fuel must also be hauled in during the next couple of months.

Quite a little stabilization of erosion-threatened walls is projected for as soon as time will admit. Drainage corrections and grading are still, and will be next month, taking up quite a bit of my time.

General. Several of the band of antelope have recently moved on to the monument proper and are seen almost every time we go to the highway for mail. The only ones seen on the monument to date have been bucks. The main part of the band is usually visible on the other side of the highway. The rains have greatly improved the range conditions here at Wupatki. Two thousand sheep are currently going through to the improved range south and east of the monument. It's yet too early to be sure, but it looks as though the rains have been sufficient to give a good start to the feed next spring. The winter range in the portion of the monument under grazing permit should build up and hold over well this winter.

I am still putting about three wheelbarrow loads of dirt on the fill around the proposed parking area in an attempt to keep the big yawning gaps from swallowing the whole building.

YUCCA HOUSE, by Edward L. Madson, Roving Ranger.

Travel this month, 6; travel year to date, 65.

This area was inspected by the Roving Ranger on the twenty-third. Six visitors had signed the register for the month. The visitors arrived in three cars, coming from Colorado and New Mexico. The monument fence and signs were in good shape and no evidence of vandalism was noted.

SUPPLEMENT

The following information of interest to the field was extracted from the Superintendent's August Narrative Report for the Director.

General. Preparation of final 1945 fiscal year estimates for Southwestern National Monuments, the Region Three Office, and other activities of the region took the full time of all personnel.

Special Activities. Mr. Richey was in the field August 1-7, inclusive, with Superintendent John R. White of Sequoia National Park, making a review of the Saguaro fire and inspecting national monuments in Arizona and New Mexico. From August 23-26, inclusive, an investigation was made of the Latir Lake area in northern New Mexico with Paul Brown, at the request of the Farm Security Administration. From August 8-15 and 27-31, inclusive, Mr. Richey served as Acting Regional Director in the absence of Mr. Tillotson.

Assistant Superintendent Maxwell was in the office the entire month. In addition to his regular duties, he prepared final estimates for Big Bend National Park, assisted in dispatching routine business for the Region Three Office, and acted in various regional capacities during the absence of Mr. Tillotson and Mr. Richey.

Personnel

Intra-Transfer and Change in Status

John E. Clark, Guide, Carlsbad Caverns National Park, to Park Ranger, Montezuma Castle National Monument, effective August 14, 1943.

Terminations

Veronico S. Roygal, Junior Fire Guard, Bandelier National Monument, effective August 11, 1943.

Jerry Trujillo, Under Fire Guard, Bandelier National Monument, effective August 10, 1943.

PERSONNEL NOTES

Headquarters is in receipt of a postal card from "somewhere in Mexico". The writer states that he is seeing the pyramids, the Church of Guadalupe, the National Palace, et cetera. He adds that the train ran off the track but that no harm was done. The card is signed "Bearhide McNeil".

Reports from Aztec Ruins indicate that the Mahans have returned from their annual leave, and that Mamie is much improved.

Jim Spuhler (Bandelier and Canyon de Chelly) has been heard from; he is now an ensign in the USNR, and reported some time ago that he expects "to go overseas in the next day or so". Since he has been studying the Japanese language for a number of months, it is assumed that the direction of travel was west.

Ted Sowers passed through headquarters en route to Tuzigoot on September 11. His failure to pass the Army's physical examination has him puzzled as he does not know on what grounds he was rejected. However, he says that he does not feel so bad about it since, of the 25 men in his age group who were examined, only three were accepted.

Charlie Steen reports for physical examination on September 27. If he is accepted he will train for the Army Engineers at a camp in Louisiana.

Word has not yet been received at headquarters as to the results of Jack Cotter's physical examination. Jack presumably reported for examination on September 10.

Paul Steel reports from White Sands that Johnwill, as of September 15, was seriously ill in the Southwestern General Hospital at El Paso. At that time it was anticipated that an operation for kidney stones would be necessary. A more recent report indicates that Johnwill is back home, so until more definite word is received we don't know just what did take place. All of us hope that Johnwill makes a speedy recovery and that an operation has not been or will not be necessary.

David Winslow (White Sands) is now located in Santa Fe with the Soil Conservation Service. He is also serving temporarily as District Commissioner for the Santa Fe District of the Northern New Mexico Council of Boy Scouts of America.

Judy Eden reports that she expects to have word any day that Jim has shipped out from the West Coast.

Gene Brooks remarked in a conversation recently that she was "between the devil and the deep sea". Since her office is between those of Chuck and Ross, we wonder if she is calling names and to whom she refers.

Bandelier bears are taking up the bad habits of their relatives in Yellowstone, Rainier and Yosemite. Last spring and during the summer Art Thomas and his family spent a lot of evenings planting and cultivating a victory garden. The bears volunteered no assistance, but when some of the crops began to ripen, they went to work in earnest. Art reports that the bears have smashed and eaten all of the watermelons (before they ripened) and that they have cleaned up about all of the peaches and plums. Following the bears' example, deer have joined in on the harvesting, showing especial fondness for cabbage. Apparently Art and his family did all of the work but the wildlife has reaped the benefit.

Art is probably in for some more headaches as it has just been learned that the new proprietor of one of the filling stations in town also was christened C. A. Thomas. As if Art didn't already have enough trouble in getting his mail put in the right box!

It is fortunate that Doc Gipe has such a refreshing sense of humor for if he didn't, the Southwest would have "got" him long ago. His monthly reports on wildlife are always enjoyed. Rattlesnakes in the living room, squirrels in the mattresses, and bugs everywhere produce only humorous comments from the pioneering Gipes.

Carleton Wilder (seasonal, Saguaro) writes that he signed up for voluntary induction and took his physical examination on September 10 but, as the time of writing, said that he had not yet been informed of the result. In case he did not pass, he states, he is lined up with a Red Cross job with the Army. Judy and the children will remain in Tucson.

S. Joe Thomas (de Chelly) is back in Santa Fe where he teaches General Science to the Junior High pupils. Griff. Dodge is one of his students (?), and reports that "Mr. Thomas is a swell egg". Joe picked up a full set of SNM informational leaflets with which he plans to make a display on his classroom bulletin board.

UNIFORM EXCHANGE: Corky Jones writes that Davey's uniform is for sale, as follows: practically new coat (blouse) McGinnis make, winter weight, $10.00. Two pair of breeches, one slightly used, $2.00 per pair. Corky isn't just sure of the sizes, but says that she will see Davey in Denver soon and can quote sizes to anyone writing in to her address: Box 601, Flagstaff, Arizona.

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Davey Jones is greatly enjoying his Army life at Lowry Field where he finishes on September 25. He will go elsewhere for a final course in phototopography, then on maneuvers, and overseas about January, he thinks. Corky is working on a "sun hole" project at the Museum of Northern Arizona.

Lois Beaubien is back in Flagstaff after a "rest" in Colorado. Aside from the destruction of her mother's apartment house by a fire in which Lois lost all of her clothes, her trip was "uneventful".

Ray Mattison has heard from C. Sharp (relief ranger) and reports that he is now at Kearns Field, Salt Lake City. If you will send us Sharp's address, Ray, we will mail him "Personnel Notes".

Parke Soule has transferred to Yellowstone as Chief Clerk. Gene and Steve (who is a moose and leads his parents a merry chase) left by train September 20. Parke and Pete followed in the family car. Parke says that, much as he hates to leave the Southwest, he looks forward to a return to Yellowstone which is his old stamping ground and much closer to Gene's family home.

Bates Wilson visited headquarters September 22. He plans to enlist in the Seabees, but will not know his status until after October 1. Edith and the children will settle down in Silver City if Bates leaves.

Farmer Richey recently harvested his peach crop and found ready sale for all excess fruit over and above the needs of his family. Ruth was quite ill during the early part of September, but has recovered and is up and around again.

David Stonehocker, Esther's and Gene's eldest son, has enlisted in the Marines. He will report to San Diego for training.

Jean Pinkley, now at Mesa Verde, reports that Addison is at sea in the Pacific. He is on board the submarine which claims the honor of having sunk the largest total of Jap shipping of any United States undersea boat.

Betty Jackson has been elected treasurer and Hap Dodge, secretary, of the women's NPS club made up of Park Service wives in Santa Fe. Helen Maxwell is the retiring president.

(There being some space left on this page, the typist believes there should be related the story of how the editor of these notes missed his lunch one day last week. We noted his absence in the patio at noon but supposed there was some good reason--until he appeared in our office just after one and objected to the time the clock was keeping. We discovered he thot it was 11:30!)

SOUTHWESTERN NATIONAL MONUMENTS TRAVEL STATISTICS FOR AUGUST, 1943

Station	August 1943	Travel Yr. to date 1943	August 1942	Travel yr. to date 1942	Increase or Decrease	Percent Increase or Decrease	Fiscal Yr. to Date 1944	Fiscal Yr. to Date 1943	Increase or Decrease	Percent Increase or Decrease
Arches	92	768	147	1675	-907	-54.1	179	241	- 62	-25.7
Capulin Mountain	3000	10400	6000	21100	-10700	-50.7	6000	9000	-3000	-33.3
Chiricahua	348	3019	1994	6816	3797	-55.7	795	2543	-1748	-68.7
Natural Bridges	31	149	40*	*157	- 8	- 5.1	60	91	- 31	-34.1
Organ Pipe Cactus	4900	45899	3056	7771	+38128	-490.6	9888	3186	+6702	+210.3
Rainbow Bridge	*0	*10	*10	*70	-60	-85.7	*5	*20	-15	-75.0
Saguaro	262	5071	259	9538	-4467	-46.8	561	385	-176	+45.7
Sunset Crater	364	2375	1384	5904	-3029	-51.3	1040	2690	-1650	-61.3
White Sands	4978	34264	6713	47301	-13037	-27.5	10105	13953	-3848	-27.6
Total Biol-Geol	14275	102455	19603	100332	+2123	+2.1				
Aztec Ruins	791	4104	1318	5890	-1786	-30.3	1457	2448	-991	-40.4
Candelier	1114	3841	802	3922	-81	- 2.0	1601	1562	+ 39	+ 2.5
Canyon de Chelly	61	380	266	1382	-1002	-72.5	109	407	-298	-73.2
Casa Grande	399	7295	625	15130	-7835	-51.7	806	1116	-310	-27.7
Chaco Canyon	238	703	135	504	+199	+39.4	416	184	+232	+126.0
El Morro	76	312	99	498	-186	-37.3	103	153	-50	-32.7
Gila Cliff Dwellings	*10	*30	*93	*128	-98	-75.8	18	103	-85	-82.5
Gran Quivira	75	408	13	1341	-933	-69.5	132	338	-206	-60.9
Hovenweep	14	100	23	74	+26	+35.1	16	44	-28	-63.6
Montezuma Castle	322	2536	551	5482	-2946	-53.5	715	1021	-306	-29.9
Navajo	11	56	4	118	-62	-52.5	19	17	+2	+11.7
Tonto	183	2699	200	5057	-2358	-46.6	344	374	-30	- 8.0
Tumacacori	337	4495	327	6205	-1710	-27.5	671	592	+79	+13.3
Tuzigoot	415	3198	577	5527	-2329	-42.1	674	1089	-415	-38.1
Walnut Canyon	702	4322	1560	7531	-3209	-42.6	1360	2849	-1489	-52.2
Wupatki	80	626	128	1456	-830	-57.0	141	284	-143	-50.3
Yucca House	6	65	11	79	-14	-17.7	7	31	-24	-77.4
Total Hist-Arch	4934	35170	6869	60341	-25171	-41.7				
Grand Total - August	19109	137625	26472	160673	-23043	-14.3	35997	44721	-8724	-19.4
Last Month	18113	118516	20982	134201	-15685	-11.68				

*Estimated

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

September, 1943.

Memorandum for the Custodians,
Southwestern National Monuments.

September narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Assistant Regional Director.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Naturalist Dodge spent the entire month in the office on tine interpretive duties, except for two trips to Bandelier National Monument. uralist Steen inspected ruins stabilization projects at Chaco Canyon and Aztec Ru assisted in the emergency excavation of a prehistoric ruin on the army's road aightening project at Bandelier. He spent the rest of the month in the office king on the Tonto 1940 Stabilization Report. Steen was sworn into the United tes Army and will leave for training camp on October 18.

Public Relations - Publicity. On page 86 of the September "Natural History azine" is an article featuring the erosional rock figures at Chiricahua National ument.

Extension Services. Two illustrated talks were given, as follows:

Sept. 15 Patients at Bruns General Military Hospital under auspices of American Red Cross, to 130 men on Desert Reptiles.

Sept. 16 23 Boy Scouts, Mechanics of Sankebite and First Aid Treatment.

New or Unusual Activities. A short article covering the National Park and ional Monuments of New Mexico was prepared for the New Mexico Blue Book, an icial State publication. Mr. William Vogt, Chief of the Conservation Section the Pan American Union, was taken to Bandelier National Monument and given such istance as possible in his work. The two 16 mm Kodachrome motion picture films impses of the National Monuments of New Mexico" and "Glimpses of the National uments of Arizona" were loaned to Mr. Vogt for showings in Central and South rican republics.

Loans, Gifts, and Accessions. Four rolls of slightly outdated Kodachrome film 5 were received from the Director's Office.

Cooperation Projects. Arrangements were completed with the Botany Department the University of New Mexico for identifying plant specimens submitted from rvice areas in the State. Sufficient specimens will be submitted so that the iversity may keep such as are needed by the University herbarium. Field men, rly all of whom are non-salaried deputy state game wardens, were requested to operate to the fullest possible extent with the New Mexico State Game Warden in an fort to curb an outbreak of game law violations.

Loan Library. Of 130 publications received during the month, 4 volumes of tural History Magazine were donated by Erik Reed, six issues of the Journal of restry by Sture Carlson, and 51 reports, pamphlets, and books by Ross Maxwell. time or help was available for library work, hence no cataloguing or other librar intenance was accomplished.

Southwestern Monuments Association. Auditing of the Association's books was ompleted September 22, and the Association's Annual Report was processed and distribution commenced. The audit showed a net gain of $164.25 for the fiscal year nding June 30, 1943.

Status of Archaeological Projects. Routine inspection of stabilization projects at Chaco Canyon and Aztec Ruins were made. Assistance was rendered to the ersonnel of Bandelier National Monument in completing the emergency excavation of uins on the road straightening line.

Photography - Visual Aids. One hundred sixteen slides and two reels of motion ictures were loaned to Hot Springs National Park as an aid in meeting the demand or illustrative material occasioned by the large number of visitors coming to that rea. Slides and films previously loaned to Boulder Dam National Recreational Area ere recalled. Motion picture films and the projector loaned to White Sands National onument were put into use at army camps and bases. Negatives were requested from ield areas in Region Three so that the headquarters photo files would have pictures romptly available to fill requests.

Reports and Memoranda. A memorandum was submitted to the Assistant Regional irector outlining the needs of the department and requesting that the position of ssistant Naturalist be filled promptly. A report on the Guide and Public Contact roblem Studies at Carlsbad Caverns National Park was completed and submitted to ommittee memb rs for approval. Annual travel reports for the Southwestern National onuments Areas were coordinated and the telegraphic report sent to the Director n September 30.

Office Visitors. The following had business with the interpreters: Chief William ogt of the Conservation Section of the Pan American Union, Custodian Thomas, and angers Hendron, Sowers, and Bates Wilson. S. Joe Thomas, formerly seasonal ranger t Canyon de Chelly, came in to arrange for information leaflets and visual aids to e used in his junior high school classroom work.

Miscellaneous - Overhead - Routine. A number of requests for information were illed. Sixty three letters were written. Files were set up for the coordination f field reports due in October, and for special reports requested by the Director's ffice. Routine reports were checked for accuracy and forwarded to the Director's ffice.

Projects Planned for October. The Annual Animal Census Reports from the field ill be coordinated and submitted to the Director. Tonto Ruins Stabilization report ill be completed. It is hoped that the interpreters files may be expanded to include all areas in Region Three. Assistant Naturalist Steen will enter the armed orces on October 18, and Associate Naturalist Dodge will go on annual leave about ctober 20 to assist his mother in harvesting her apple crop in danger of freezing ecause of shortage of pickers. Custodian Toulouse will coordinate field reports nd handle other office routine in Dodge's absence.

RCHES, by Lewis T. McKinney, Custodian.

Visitors for the month 87: Travel year to date 855.

Activities at the monument has been rather a hit and miss set-up this month. Building repairs were made on the storage buildings. Materials were restacked so as to have a place for a temporary office. Foundations were poured of concrete for both the light-plant and water pump motors. A temporary building was constructed, but not yet finished for the water-pump and light-plant. A stall for the saddle horse and a place for grain and saddle was constructed. These are just about complete except for the roofing paper. More work was done on the horse corral, but there are a few more days work on this to be done. Repairs were made to fire and other tools. I had to go clear over to Floraetta Mesa for oats for horse feed. I tried every one I saw or heard of, but no oats for sale, and if you spend much time running around looking your miles and gasoline are gone and still maybe no oats.

Horse-back and pick-up patrol were carried on throughout the month. Starting ext month, I'll be on the go for about five or six months herding sheep from the onument. If any of you boys want to try your patience or temper, just come over pr a few months. Some of the signs I put up this summer have already disappeared, osts and all. They make pretty good fire wood I understand.

Harry Reed had to leave on the 21st of the month. It looks like Gyp Faris coul ick a better time to get sick. Harry and I were at the point where we could just bout see our way out with a lot of our work within the next month or six weeks. ou know one man trying to do the work of 200 CCC'S and still watch safety rules nd regulations, just can't do a heck of a lot.

My youngster, (Lewis Jr.) was taken to the Hospital for an operation on the 13t s now doing fine and will be home tomorrow if everything goes right.

Our former chief clerk Parke Soule and son Peter, were here for about an hour esterday morning. I was sorry they couldn't spend more time and see some real ountry before going up to Yellowstone. I'm sure all of us hated to see Parke go. ut good luck anyway Parke.

Mr. Tompkins and Norman Neville have been out on the monument for several days oking over the Devil's Garden and Firey Furnace sections. Taking pictures and oing things that they failed to take in last year. They are due back in to head-uarters today. Harry Reed planned a day or so with them, taking pictures but was lled away before he had time to make it.

The La Sal mountains are showing signs of approaching winter. There are several oups of color up there this morning.

Out of 34 trees and shrubs I planted around headquarters, there are still 27 wing and I was pretty short on water for several days when they needed it the st. Maybe I can do better next spring.

TEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month - 875: Travel year to date - 4979

General: Travel and weather have been good for the entire month and for some known reason the month of September was a much better travel month than August, ich has always been the heaviest travel month of the year. One official trip was de to Hovenweep, Yucca House and Natural Bridges, by the Custodian. Regional rector Tillotson and Naturalist Steen inspected this monument on Sept. 22. Steen turned on the 23rd and departed on the 25th after checking over drainage and stabi ation work.

Ranger Mahan was on sick leave August 29 and 30. The Custodian was on annual ve September 15, 16, and 17 because of an emergency operation. Our youngest son, , had an operation for appendicitis at the Farmington Hospital on the 15th. We glad to report he is rapidly recovering and will soon be back in school.

Weather: Our maximum temperature for the month was 98 degrees on August 31 and minimum was 40 degrees on September 20. Very little rain fell during the month h a total of .35 inches falling on 8 days. We had 22 clear days, 7 partly cloudy d 2 cloudy days.

Use of monument facilities: A total of 875 people visited the area in 274 cars m the following states: Alabama - 1, Arizona - 24, Arkansas - 6, California - 64, Colorado - 316, Florida - 1, Illinois - 19, Indiana - 2, Iowa - 8, Kansas - 41, sachusetts - 2, Michigan - 6, Minnesota - 5, Mississippi - 1, Missouri - 5, braska - 11, New Mexico - 215, New York - 2, North Carolina - 4, Ohio.- 6, Oklahoma , Pennsylvania - 2, Texas - 89, Utah - 4, Wisconsin - 5, District of Columbia - 1, shington - 1, West Virginia - 9. Of this total 518 people in 109 parties visited th the ruins and the museum, the balance of 357 people were contacted and given formation service. Guide time was as follows: Custodian Miller - 84 3/4 hrs; ger Mahan - 87½ hrs: Ranger Madson - 2¼ hrs. Total guide fees collected, includin , amounted to $106.39

National Park Service Visitors: Regional Director Tillotson, Naturalist Steen and Chief Clerk Soule from the regional office. Custodians Hastings, McNeil, McKinney and Relief Ranger Reed.

Maintenance, Improvements and New Construction: The pipe line project was completed during the month. We now have all new two inch line from the well near th administration building to the custodian's residence, new hydrants installed, and water pressure increased. The air compressor was borrowed from Chaco to put in an air cushion in the pressure tanks which are partially water-logged. The compressor was equipped with a DC motor and not designed to work on alternating current. We have the DC motor removed and have installed an AC motor and we hope to get this project out of the way at an early date. The grounds were mowed and raked during th month, eliminating much of the fire hazard.

Ruins stabilization and drainage: Our major problem during the month was under ground water seepage from the Farmer's Ditch, one quarter mile north of the monument. Water from that canal and from irrigation above the ruins has caused two kivas to flood with water. A pump was installed and the water from these kivas was pumped an drained several times daily to try to keep the kiva walls intact until some satisfactory drainage system can be perfected. One well was dug and cased with galvanized iron, perforated to keep the mud and silt from clogging up the rotary pump. The area above has been thoroughly investigated and some of the flow eliminated by replacing a leaky flume. Drainage methods were changed and to date we have eliminat at least half of the water in the kivas. However, this trouble cannot be entirely overcome until a satisfactory drain ditch is installed above the ruins. This will require a special appropriation as it is considered a major project.

Much has been accomplished on ruins stabilization during the month. Two navajo have been employed on this project the entire month.

BANDELIER, by C.A. Thomas, Custodian.

Visitors this month - 330; Travel year total - 4171

General weather. Past records indicate that September is usually our wettest month with an average for the past of more than 4 inches. This September was unusually dry with only .53 inches falling in a number of scattered showers. Maximum temperature was 91 degrees and minimum 34 degrees.

Roads have been dry and dusty and the extreme truck traffic on the Otowi Section has made it highly hazardous to travel the approach road. We have promise of better days to come as the contractor is making good progress on the road through Otowi. The contract has been let for the section from the Rio Grande to Tesuque to connect with U.S. 285. The contract has also been let for the bridge across the Rio Grande and for the one across the Tesuque River. Grading and base course on the roads and all bridge work are to be completed this winter, but due to the approach of cold weather, black topping will have to be postponed until spring. When this project is completed, only a little more than 13 miles of bad road will remain of the 46 from Santa Fe. Completion of the roads now under construction should benefit Bandelier greatly after the war. With 33 miles of surfaced road out of 46 miles total, our approach road problem will be a long way toward solution.

Inspections. The Otowi Section was inspected frequently and the Custodian spent considerable time conferring with the contractor and supervising brush burning and right-of-way clearing. Archaeologists Steen and Reed inspected the Otowi excavation September 2. Regional Forester Carlson accompanied by a technician from the Bureau of Plant Industry inspected the serious beetle infestation of the pinyons on September 2.

Regional Engineer Lassiter and Regional Landscape Architect Kell inspected the Otowi road September 7. Archaeologist Steen inspected the Otowi dig on September 9 and Naturalist Dodge visited Headquarters the same day. Natt took some needed pictures in the morning and returned to Otowi to help with the dig in the .M.

Assistant Regional Director Richey came to Bandelier September 23, spent that day and the following inspecting the area and going over various problems. He returned to Santa Fe the morning of September 25.

Newsworthy Visitors. Mr. & Mrs. John Hansen of Washington D.C. on the 8th. Regional Engineer Lassiter accompanied Mr. & Mrs. Hansen to the monument. Mr. William Vogt, New Section of Conservation, Pan American Union, Washington, D.C. accompanied by Naturalist Dodge and Clerk Harry Linder visited Bandelier September 5. Mr. Vogt will shortly visit a number of South American countries and was very much interested in our museum and interpretive program. Lieutenant Governor J.B. Jones and party visited the monument September 22.

Fauna. Wildlife has been too active in the monument for the good of Victory Gardens. The personnel at Bandelier have put in most of their off-time planting and caring for a community garden at the old Frey orchard. Just as we were preparing to reap a rich harvest of pears, peaches, apples, tomatoes, watermelons, etc. the wildlife discovered the delights of the home garden. Seven deer frequented the garden and did to death the lettuce, cabbage, beets, carrots, turnips, bell peppers etc. Then the bears discovered the fruit and promptly devoured the melons, cantaloupes, peaches, pears, apples and plums. The bears weren't particular, ate green fruit as well as ripe and left the custodian, ranger force and mechanic with a slim larder to begin the winter with. If we ever meet some of these spoilers off the monument!

Guide Service. 347 visitors came to us exclusive of the Army personnel in the Lodge. They were cared for in 39 trips thru the ruins and 25 museum parties. One campfire meeting with an attendance of 35 was held for the benefit of Lodge guests.

Archaeology. Our archaeological project, which was begun on August 12, has been completed. Needless to say, the site was excavated in time to save it from the bulldozers on the new road in connection with the Army's Zia Project at Los Alamos.

This ruin is now called Potsuii No. 2 Site, the second to be excavated by the National Park Service in the Otowi Section. This name was chosen for clarity and probably will be used for any other ruins in that section of the monument which may eventually be included in an archaeological survey.

Potsuii No. 2 clearly demonstrates the use of unworked tuff chunks and a higher percentage of mud mortar in house construction during a very early period of occupation probably in the 12th century.

A cluster of ten rooms made up the house unit. The architectural style for the period was poor. Several fireplaces were found and evidence that there had been fire in the rooms. Artifacts were scarce but the pottery is sufficient to obtain an idea as to the length of occupation. It seems safe to call it a black-on-white.

The most important discovery was the kiva. As far as we know, this is the first of this early period, to be excavated completely in this region. The style was clearly demonstrated here for the early period. The kiva was round, approximately twelve feet in diameter with the ventilator shaft to the east. A stratigraphic test was run on a quarter block of fill and tentatively speaking, the early styles of pottery were found in sequence.

By the time this structure was built the Kwahe's wares had disappeared and were replaced by early Santa Fe styles and corresponding utility types. When the kiva was abandoned it was fired and the roof structure was found on top of a perfect hard plaster floor and a series of four fire pits. This apparently marked the extent of that early occupation.

Some time later it seems, a group of early farmers built several rooms near by and used the kiva as a dump. Additional rooms were added to the house and in time the kiva was filled up level with the ground and walls were laid across the top. Apparently, this kiva belongs to a site of somewhat earlier occupation which was not discovered. At any rate we have the pattern of what might be called the earlier occupation level before the time of the great houses of Otowi and Sankawii which probably were in the making by 1400 A.D.

The project was carried on entirely by Park Service personnel as no outside laborers could be obtained. Ranger Hendron was in charge of the dig. Va luable assistance was tendered by Archaeologists Steen and Reed and Naturalist Dodge from Region Three Headquarters. Seventy-four man days were spent on the project so far. Much of Ranger Hendron's time this winter will of necessity be spent making drawings and working up reports on the archaeological work accomplished this summer.

Personnel. Fire Guards Ricardo Roybal and Tomas Roybal were terminated August 31 and Assistant Guard Gomez was terminated September 15th. The custodian took 1½ day annual leave. The children were placed in boarding schools in Albuquerque and Santa Fe.

Maintenance. Our 10 KW generator went down entirely during the month. The Army brought in and installed three 5 KW plants to furnish power and their mechanics gave the Kohler a complete overhaul job. The Kohler is running again and one 5 KW plant was left here by the Army for an auxilliary plant. More signs were completed and ready for placing on the boundary and trails. About a mile of the paved entrance road was patched and repaired. Bitumuls was used exclusively for mending surface breaks.

Time spent in interpretive work: Eden - 22½ hrs.; Hendron - 21½ hrs.; and Thomas - 32½ hrs.

CANYON DE CHELLY, by M.E. Guillet, Custodian.

Visitors this month: 23 Travel year total 403.

Weather. The early part of the period was a continuation of last months rains. On August 30, we had another cloudburst which was worse than any previous one. One and six tenths inches was precipitated in 15 minutes and although the total fall did not measure as much as on August 11, the ground was completely saturated by a rain of .25 inches earlier in the day so there was a very heavy run-off. Although the water touched both walls of the canyons in most places, there was no damage done to the ruins. It was again necessary to use my office for a diversion canal and I was able to keep most of the water out of my quarters. This rain made a total of 6.2 inches for the month of August which was an all-time high since the year of 1909 when the first weather station was established at Chinle. The rainfall for the report period measured 1.95 inches.

The maximum temperature was 90 degrees and the minimum 38 degrees. There is generally a killing frost before this date and it appears that the growing season will be longer this year. There were no days when the maximum temperature went below 80 degrees, and only three days when the minimum was below 48.

Maintenance. Due to the heavy rains mentioned above the maintenance work was greatly increased and a great deal of work was done cleaning up and repairing damage. The drainage system has been cleaned again and enlarged to take care of any surplus moisture that might come. I have the buildings almost completely replastered on the outside, and the grounds around headquarters looking spic and span. The Storage hogan has been re-floored with sand and sealed with more bitumols. The worst part of the debris on White House trail has been removed and the trail is rough in places but completely passable. A flagstone walk was layed around the quarters so that during wet weather we can go outside without rubber boots. A new sign was made for the White House turn-off as the other one was broken by a run-away team of horses.

A trip to Gallup for supplies was made on September 2. I took U.S. 13841, the dump truck which was formerly USDI 1228 as I needed a new supply of liquified petroleum gas.

Both pieces of automotive equipment were completely lubricated and the transmissions and diferentials greased at the Indian Service garage. The Chevrolet pick-up, U.S. 1-13840, formerly USDI 1258 underwent a little longneeded repair work. The carburetor and brakes were adj sted and an old weld on the fender was repaired as well as replacing of a fender bolt which had broken off.

Visitors and Ranger Service. The majority of visitors this month have been artists and photographers. Mr. Naumer from Santa Fe accompanied by his wife and family spent three days in the canyon sketching and Mrs. M.W. Hutchinson, an artist from Maine, spent two days here. Mrs. Hutchinson was accompanied by Mr. and Mrs. Portland Halle, owners of the "Wranglers Roost" guest ranch near Phoenix, who were conducting her thru the Indian country and doing some color photography.

There was a total of 23 visitors arriving in 7 cars during the period. Of thes two were unattended. The custodian made three ruin trips with a total of seven visi and spent a total of 8½ hours of actual guide time. Fourteen visitors were contacte at headquarters and given informational talks for a total of 1 hour and 20 minutes. These visitors came from five states, namely Texas, Florida, Maine, New Mexico, and Arizona.

War Reaction. There seems to be less travel since the O.P.A. has tightened their restrictions on gasoline and tires. Also due to the large number of Navajos who have been taken by the armed forces, railroads, and agricultural areas, there have been few "Nah-ho-his" or squaw dances, and as the Navajos have more money now, they are doing very little weaving and silverwork. All this, of course, has affecte travel inasmuch as most visitors to this area are interested in getting an insight of Navajo life as well as seeing the country, so the attraction is materially lessen

Projects for Ensuing Month. Getting all of the required reports out on time, finish replastering the toolshed and garage, getting in a supply of wood, and if old Jupiter Pluvious still frowns on me, I'll clean up after each manifestation of heavenly wrath.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month 1,498; travel year, 11,898.

I am reporting only fifteen hundred visitors to the old Volcano this month, The war has cut a great hole in our travel, Most of our visitors have been either soldiers or some of their families. None of the Park Service officials have been here that I know of. I wish they would, I am getting sort of lonesome for some of them.

Weather has been the usual type for September in this country, light frosts, much cooler, and rather void of moisture, some light variable winds and cloudiness for the past two weeks.

General conditions throughout the vicinity are very good, wild grasses are plentiful and curing very good, considerable feed crops and all are maturing nicely.

Roads on the monument are in splendid condition althouth the very first part of the month they were neglected somewhat but are now in apple pie order. Considerable damage was done by the August rains by piling up cinders and debris in the road and cutting gullies from the outside.

Flora. We did not have the usual spring and summer display of wild flowers, but we are now having them in September. Three types of the small yellow sunflower, Flaming Penstemon, and the purple daisies are now in full bloom. All the bushes and trees are bare of nuts; no acorns or pinons at all.

Fauna. And with the largest supply of squirrels that I have ever seen on the monument. Well nature will have to take her course. We hope for the best. The squirrels had better gather sunflower seed. Our regular supply of deer are doing fine. We have one extra large buck this fall that is quite gentle. This is unusual.

Some time this week we had about a dozen wild turkey travel up and down the road on the monument, but they do not stay on the monument. The nearest turkey rendevous that I know of is about fifteen miles away.

CASA GRANDE, by A.T. Bicknell, Custodian

Visitors this month 549, travel year total 7,844

Visitors for the 1943 travel year show a 50.6% decrease from the 1942 travel year. However, this fiscal year to date shows only a 27.6% decrease from last fiscal year to date; we seem to be reaching a plateau in the downward slant in our travel graph line.

The figures for the two fiscal years show that the average number of people per car has gone up considerably--the percentage of decrease for number of cars is almost three times that for the number of visitors.

Use of Monument Facilities by the Public. 314 people were guided through the ruin in 78 trips; of these, 226 were also guided through the museum in 64 trips. Total guiding time during the period was 74 hours and 33 minutes. 195 tickets were sold. Members of the armed forces visiting the ruin totaled 56. 235 visitors entered the monument without making the trip to the ruin; of these 66 used the picnic area

Weather. Really quite pleasant during the nights now; and the last three days of the report period have had maximums below 100 degrees! The Ranger, conditioned to northern Arizona weather, seems to feel that congratulations are in order for her surviving a southern Arizona summer. Her only consolation for four or five months has been in compiling statistics from Weather Bureau reports which would show that this is one of the hottest sections of the state and that this was one of the warmer summers--she was partly successful when she found that the mean maximum temperature for the first 24 days of September, 1942 was 101, and for September, 1943, 105. Taking it by and large, as the Boss would say, it probably was a pretty average summer and now the desert-dwellers can reap their well-earned reward of sunny, comfortable winter weather while the northern part of the outfit cusses the climate.

Precipitation for the period totaled 1.33 inches. High temperature was 110 on the 11th; low was 63 on the 8th.

General. Annual automotive reports were completed during the month. Ration book for gasoline for the 4th quarter were obtained and sent to the field. 5030 map-folders on the Southwestern National Monuments were shipped to White Sands. Minor repairs were made to the Casa Grande pickup; a battery ordered for it from Firestone had to be returned because of damage, but has been replaced by them with one in good condition. Mechanic Stonehocker made two trips to Phoenix for supplies during the period, and one trip to Gran Quivira, Walnut Canyon, and Tuzigoot, transporting supplies and equipment between areas en route. More work has been done on the compilation of data from the monument files and published works in the library for the fact file; this job ties in well with reorganization of the files, on which some time was spent this month. We learned that the proposed road along the west monument boundary has been ear-marked for post-war consideration.

Maintenance. The pottery storage room in the carpenter's shop (former naturalist office) has been completed; shelving was replaced in the dark room adjoining to provide extra storage space; pottery shelves were cleaned and rearranged. Now all study materail not in the study collection room in the museum has adequate, safe storage. The grounds behind the utility area were cleaned and down trees there removed. A leak in the shop roof was patched. The casing around the cut-off valve to the administration building was enlarged and a concrete cover made. The plumbing in the comfort stations was worked on; some of the valves were beyond repair and new ones were ordered. Another fire plug valve seat was renewed. Heating stoves were cleaned for winter use. The chlorinator was repaired.

Personnel. Teddy Bachr took sick leave from the 9th through the 13th; Teddy let the calendar fool him and went on daylight winter shift too soon. The Gipes were down from Tonto on the 7th in their own car to consult about the annual automotive reports and to haul back supplies.

Na ture. On September 12th the English Sparrows returned to the monument; they arrived in a large flock, panting and looking as if they had had a tiring flight. Since then they have been up to their old trick of pulling twigs from the porch ramadas. More welcome fall arrivals were the Say Phoebes, the Desert Sparrows, Gambl Sparrows, Verdins, Gnatcatchers, Cactus and Gila Woodpeckers, Black Phoebes, House Finches, Green-tailed Towhees, and a pair of Gilded Flickers. The season of cacti blossoms ended with the orange-flowered crowns of the Barrel Cactus. The beautiful black whipsnake of the ruin gave a good imitation of a horned viper one day when he glided out of the west room with the black wings of a partially-swallowed bat sticki out on each side of his head.

CHACO CANYON, by Irving McNeil, Jr., Custodian.

Visitors this month - 252; travel year total - 955.

Two hundred and fifty-two visitors this month came from Texas, Arizona, Colora and New Mexico in one hundred and two cars. Twenty-nine of these visitors had time to see the ruins, and all were exceedingly interested. Ranger Collier spent four hours with three parties, and the custodian spent ten hours and fifty-five minutes with six parties. As is usually the case, all the visitors were on other business and stopped by enroute.

Several National Park Service men were in, too. Ranger Mahan was in on the 7th of the month to take some pipe back to Aztec Ruins National Monument, and, also, to borrow the large Chaco truck and the Chaco air compressor. He was accompanied by Agapito Atencio and Kanapa Atencio who, with the custodian, helped him dig up the pipe. Ranger Mahan returned on the 19th of the month to borrow the water pump and motor which this custodian was preparing to install. Charlie Steen, Assistant Park Naturalist, was in on the 24th and gave the green light to finishing the ruins stabi zation job which July 1 caught in mid-air.

Since the last report, the custodian has been to Mexico City. One of the principal objects of the trip was to see the Indian ruins there. He has been telling visitors how Chaco stacked up with other North American ruins, but he desired more first hand information.

Also, this month, Chaco has received a bear hide -- a very large one. It has not been placed on the cattle guards as yet, for the "bearhide" custodian wants the skeptics to see it. Now, where's the editor of the personal column?

Ranger Collier left on the 31st and this custodian was sorry to see him go for he was a good worker, and a great deal was accomplished this summer. His leaving makes a quiet canyon all the more quiet.

All is not always quiet, though, for on September 1, there was an accident on the mesa at Chaco. Two Indians were killed by a runaway team. The custodian was at until 4:00 A.M. helping as best he could.

This month was spent accomplishing many small jobs. Stone was hauled for the wall to shut off the light plant, a few gates were taken down (not on the boundary fence!!!), another put up, a leaky water main repaired, repairs made on the pickup, a new door for the cellar was made and installed, some preparation for winter made, etc.

Next month, if the water pump can be obtained again, it is hoped it will be installed, and also, the generator will be going again.

CHIRICAHUA, by Frank Fish, Custodian.

Visitors - 430; travel year total 3449.

Travel remains mainly a Sunday business, with the best run coming from near by Army Bases and local towns. While over fifty percent of the visitors are from Out of State, many of these are people working temporarily near by in war work. Very few bona fide tourists are visiting the area.

Increased income indicates a tendency for the people to take advantage of paid facilities over the use of the free camping offered here.

One advantage, for future benefit, is the Out of State people are becoming acquainted with their National Park Service areas and when travel becomes popular again, we will undoubtably receive large numbers of guests as a result of word of mouth advertising.

Maintenance. Trails have taken most of the available time this month and from all indications most if not all of next month will be spent repairing them. It was found that the extra heavy storms did more damage than at first realized. Many channels were cut in the hillsides where no indication of drainage was apparent. An estimated three to five inches of sudden moisture must have fallen on the hillsides above the trail system. Our well constructed trails faired better than the neighboring Forest Service ones; as they claim many of their trails have completely disappeared. Many of their fire trails, suitable for trucks, are now impassable. An effort has been made through a corp of Army Engineers to get a company to repair some of this damage as a training program for their men. Considering that the money comes from the same pocket and this is the type of training the men need, it is thought a greater effort should be made to get these men. Another little item is the Army has most of the available equipment under their wing.

Cooperation. The greater part of one day was spent in helping the Army in getting poles for construction from the neighboring Forest Service. Four days of annual leave were taken to aid a neighboring rancher in vaccinating his cattle for Septicemia

EL MORRO, by George Baxter, Custodian.

Visitors this month 34; travel year to date 346.

Weather. September has been a very pleasant month with only light frosts at night. Maximum temperature 85 on September 11, 12 and 21, minimum 55 on September 13. Precipitation 1.23 inches.

General. It seems as there is very little to report from this monument for the month. Roads are rough as a result of August rains, and visitors are few. Farmers of this community are busy cutting corn and harvesting beans. Our two boys have returned from summer vacations and are now in school again.

This morning I watched one of our eagles swoop down near the edge of the cliff catch a large jackrabbit and then take to the air and soar around for several minutes with the rabbit in his claws. He then descended until he was about twenty feet from the cliff and dropped the rabbit. I heard the rabbit hit the rock cliff. I watched for some time but the eagle did not return to eat the rabbit. Guess he had already had breakfast and was hunting just for pleasure.

Use of monument facilities by the public. 34 visitors arrived during the month from the following states and departments: New York 2, New Mexico 17, Texas 2, Arizona 2, Government 9, Army 2. We had 11 conducted tours around the rock with a total guide time of 13 hours. Personnel engaged in interpretive services: George Baxter 6 hours, Hazel Baxter 7 hours, 15 minutes.

Maintenance, improvements and new construction. Spent entire month working on ranger cabin. Rather a slow job when working alone and when using salvaged material.

Projects for ensuing month. Build retaining wall around edge of cliff to increase water supply in pool. Continue improvement work on cabin.

GLAN QUIVIRA, by Joseph H. Toulouse, Jr., Custodian.

Visitors this month 21, travel year 429

Visitors. Visit from former custodian Boundey is herewith acknowledged. Mr. Boundey dropped past on September 21 along with his wife. He is now making his

home at Ft. Summer, New Mexico, with his eldest son.

Continuing and routine projects. Much time this month was spent again in the Region Three office, this time the laborious task of working up the final estimates along with Chief Clerk Seule. More time was spent away from the monument than had originally been anticipated. As upon the finish of work at Region Three, several days were utilized in gathering historical background material for the report on the early water systems at Gran Quivira, and upon the return of the custodian to the monument the greater portion of his time was devoted to writing up the above mentioned report. Servicing of equipment and other routine were sandwiched in so that things are again current.

Continuing projects. Again to Region Three in the next few days after the writing of this report, upon return to the monument the finish of the water systems report, binding of kodachrome slides for Headquarters slide library, and completion of other reports. Then too it will be time to get the monument in shape to weather the coming winter, which at this writing seems to be already here.

HOVENWEEP, by Thomas C. Miller, Custodian.

Travel this month - 2; travel year to date - 102.

This area was inspected on September 22 by Regional Director Tillotson, Naturalist Steen, and the custodian. We arrived at Hackberry group at 1:05 p.m. Inspected all five groups and departed at 5:30 p.m. National Park Service visitors other than those mentioned above included Superintendent Nusbaum of Mesa Verde National Park. "After" pictures of stabilization work at Square Tower group were taken. This work was carried on by Roving Ranger Madson this year and some fine measures of preservation were perfected in part of the ruins. Ranger Madson was terminated on August 27 in order to report to the Aztec High School for this school term. He is to be commended on doing his work well this past season at Hovenweep.

MONTEZUMA CASTLE, by Homer Hastings, Custodian.

Visitors this month, 313; travel year to date, 2849.

General. Camp Verde schools opened September 6 and the custodian's two daughters walk with two of Ranger Clark's daughters to our entrance gate where they are picked up by a school bus. General weather conditions have been agreeable. A maximum temperature of 104 degrees was recorded on August 27 and September 29. The nights are cool with the minimum ranging between 50 and 55 degrees. Mean maximum 97.66 degrees; mean minimum, 55.4 degrees, Total precipitation, .60 inches.

Administration. Considerable time has been spent in efforts to acquaint Ranger Clark with the office routine and necessary procedure in making reports. The Custodian was on annual leave September 12 to 20 inclusive. A small sign, "Visitors climb at their own risk" was placed near the bottom of the first ladder. Ranger Clark's wife and daughters are camping with him while they await the arrival of their household goods from Carlsbad.

Maintenance, improvements, and new construction. Completed removing silt from parking area and adjacent terrace and used much of the material to fill washed places on top of the retaining wall. The automatic air vent on the water system's pressure tank was found clogged. This was removed and cleaned and has relieved excessive air present in the water system for several weeks. Removed drift obstructing a culvert on the campground and piled the usable wood for firewood. Placed river gravel on trails around residences and under clothsline. Constructed some sandstone steps where trail was badly washed near Residence No. 1. Completed painting exterior woodwork and window screens at museum. Started painting picnic tables.

Use of monument facilities by the public. Total cars, 87; Arizona cars, 52; total states represented, 22 and the District of Columbia; foreign countries, New Zealand. Total visitors, 313; number of tickets sold, 121; revenue received, $34.15; members of the armed forces admitted free, 11; children admitted free, 21; tax but no tickets, 9.

Guide service. Total contact hours, 72.50; Hastings, 31.50; Clark, 41.00. Ruins trips, 54 for 162 visitors; museum parties, 57 for 236 visitors. Information service for 37 visitors. There were 10 picnic parties for 42 people and 2 parties of campers totaling 4 people.

Park Service visitors. Relief Ranger and Mrs. Ted Sowers.

Fauna. Found a 41 inch male Northern Black-tailed Rattlesnake on the floor of the men's restroom. Wonder how he got in the correct side. Two bull snakes were seen. One at least six feet long was photographed in Kodachrome.

Protection. The entire monument fence was patrolled and repairs made where necessary. Barriers that had been washed out of water channels were replaced, and silt and debris that lodged against the fence was removed.

Visitor reactions to the interpretive program. In one of our museum cases there are some model hands demonstrating the manufacture of an arrow point. When called in to settle a discussion, it was discovered that one of the visitors had lost a wager on betting they were real hands cut off a dead Indian. Orchids to Earl Jackson for a good piece of modeling.

Projects for ensuing month. Clean and check the fuel oil heating units for the residences. Finish painting picnic tables. Haul firewood for winter. Move external telephone to Residence No. 2. This project was slated for August but was postponed when necessary materials could not be secured. Continue monument patrol and visitor contact.

NATURAL BRIDGES, by Thomas C. Miller, Custodian.

Travel this month - 26; travel year to date - 175.

Senior Laborer, John Wiley Redd, was terminated early in the month, at the end of his accumulated and accrued leave. This area was inspected on September 23. All tools and equipment checked and the area was left in good shape for the coming winter. However, we will probably have some travel at that area during October. The Natural Bridges pickup was moved to Chaco for the winter. Mr. Redd reports one busy and successful season at the Bridges.

NAVAJO, by W. W. Wilson, Custodian.

Visitors this month 6; travel year to date 62.

Visitors. They came in two cars. Four were taken to Keet Seel in two trips. Three were taken on Sandal Trail to Betatakin Point in two trips.

Weather. Temperatures varied little for over three weeks. Typically fall days, the high being 86 degrees on the 5th and 7th, low 48 degrees on August 31. Only .43 inch precipitation on two days, with a trace on two other occasions. No color as yet in the canyons or in the oaks up here.

Roads. Roads are sandy again in spots. The hill coming out of Shonto in this direction is very rough.

Maintenance, New Construction, Miscellaneous. The usual inspections at Keet Seel and Betatakin. In fact was at Keet Seel twice and Betatakin several times. Some work was done on the main road. A good part of the month has been spent getting the winter's supply of wood. Office work, and maintenance kept current and daily fire patrols made.

Continued projects. The installation of the gas tank and pump yet to be completed for the lack of ½ of one connection. The usual maintenance, office work and inspections will be kept current.

ORGAN PIPE CACTUS, by William R. Supernaugh, Custodian.

Visitors this month 4,943; travel year total 50,842.

Travel. With the travel year ended this area shows a nice increase of 376.2% over the travel year of 1942. The increase, however, is due to an accurate count this year rather than a great increase in travel.

General. It is good to be back with the Park Service again, even though it is necessary to make reports and do office work. After fourteen months absence from the work, it is quite a job to catch up on all new procedure made necessary by war time measures. Bates Wilson started on annual leave September 13 previous to his enlistment in the Seabees. Most of the month has been spent in work in the Headquarters area with only a little time for patrol. One Special Use permit was executed with the Tanner Construction Company to secure gravel from Alamo Wash for the approach road. Local rains covering a greater part of the monument have brought the desert back to life after its long drought. Grass and vegetation is once again green.

Roads The good news was received that our 23 mile road will be oiled and completed. Engineers Watson and Rutledge were over the road September 24, and report that the contractor will begin movement of equipment to the area September 27. Construction of the approach road between the monument boundary and State Highway 85 is started. This will at last give us a good road to and through the monument. Oiling of the Sonoyta-Rocky Point road is reported nearing completion, with oil within two miles of the Gulf.

Projects for the coming month. This month will be spent in rebuilding about one mile of fence which was destroyed by floods, work on the headquarters area, road patrol, and administration problems in connection with road construction and oiling.

SAGUARO, by John Peavy, Custodian.

Visitors this month 236; travel year total, 5,307.

Weather. The first part of the month was extremely hot for this time of year. The latter part of the month was blessed by intermittent showers and heavy rains, however the Loop road was damaged considerably on the night of the 25th.

Travel. Visitors this month - 236, annual travel 5,307, total cars 70, Instate 35, Outstate 30, Army vehicles 5. Members of the armed forces 34. Guide time 9 hrs. 5 min; J. Peavy 5 hrs., 20 min., J. Peavy 3 hrs., 45 min.

Roads and trails. I spent three days this month working on the Loop road. I had it in excellent shape by the 25th., however all work was lost during the night of the 25th due to a 2½ inch cloudburst. The trails are all in poor shape.

Planning camp and related activities. We had a 2 3/4 acre lightning fire in Happy Valley Saddle on the 28th of August. The camp was closed for the season on August 31. Most of the improvements had been accomplished by this time as follows: 1. Cabin re-chinked. 2. Rock pillars constructed for support of front of cabin. 3. Screen doors and windows installed. 4. Roofs repaired on cabin and barn. 5. Signs installed on all major trails. 5. Maintenance of Tower completed.

Telephone line. I spent four days during the month repairing and improving the 16 miles of telephone line between the Bar AA ranch and the Tucson City limits. The line is in fair shape at present.

Range Mgt. I spent the 5th at the X9 ranch reviewing a request to construct 2 fences within the monument for stock control in the vicinity of the X9.

Tucson office. I spent partial days in the Tucson office on the 11th, 17th, 22nd, and 27th.

Special reports. The 19th, 20th, 25th, and 26th were spent on overdue and special reports required at this time. 1. Sup't. statistical fire report on forest and building protection equipment. 2. Individual forest fire summary. 3. Annual game census. 4. Daily weather and fire danger reports. 5. Graph of daily and fire weather danger. 6. Individual fire report on fire #6. 7. Form 69-R026. 8. Salary questionaire.

Closing. The remainder of the month was spent in patrol, maintenance, policing and public and permitee relations.

SUNSET CRATER, by Phil Van Cleave, in charge.

Visitors this month 374; travel year to date 3,249.

Little to report because of lack of inspections during month. One fire in the region of Sunset Crater, but on Forest Service lands, was put out on August 13. Recent rains again made the entrance road nearly impassable for two or three days. One half hour was spent in grounds inspection and clean-up on September 26.

TONTO, by Elmer C. Gipe, Custodian.

Visitors this month 175; travel year to date 2874.

One hundred seventy-five people entered the monument in 45 cars, 23 of which were from Arizona. Fourteen states were represented. Lower ruins trips 23 with 85 people; upper ruins trips 2 with 6 people. Museum parties 38 with 140 people. Armed forces 10. Parking area contacts 25.

Personnel time; Custodian Gipe 43 hrs.

Visitor reaction: No change is noted.

Weather. Very hot both night and day the entire month, and some cloudiness with several very light sprinkles; one good shower. Much high wind the latter part of the month. There must have been a cloudburst up on the Salt River yesterday afternoon as about 6 p.m. a muddy torrent poured into the lake, coloring the water as far as Roosevelt and bringing down a large amount of debris and logs.

General. It is getting pretty dry again in this area and some of the bushes and shrubs are dropping their leaves once more. The high winds have stirred up considerable dust the last two days and nights. Made a trip to Globe the 2nd. of the month for Bu-gas and to get papers at ration board for recaps on my permanent pickup. Then as soon as I received notice to see the Matlock Electric Co. about the possible difficulty in getting Bu-gas in the future made a hurried trip to take that matter up with them. Made a trip to Coolidge, in my own car, to straighten out some matters concerning car reports, as there was not time to write to Santa Fe and get a reply before the report was due. Thanks to Al I found out which was which. Brought back several items from the warehouse which were needed here. Have spent a great deal of time on the temporary cabin this month.

Wildlife. Noticed two Gambel Sparrows yesterday, so the winter dwellers are beginning to come back. The bat population seems to have increased somewhat this year as larger numbers than usual are seen in the evenings. Coyotes were heard a few nights ago and raccoon tracks were seen around the temporary cabin. Quail have been and still are very numerous.

Maintenance. More work has been done on the road and trail but the road is still very rough. Some cleaning up of weeds around the parking area and regraveling where badly washed.

Projects for the ensuing month. The usual cleanup of ruins and all open areas.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month 284; travel year to date 4,779.

General. Another cloudburst on August 27 gave the monument another "washing". Water poured in through the gates in spite of the drains built across the roads and spread over the curb, filling the french drain in front of the museum, and crept through the lobby of the museum. Fortunately no damage was done except for the mud stain on the brick floor which will in time disappear. The storm came at about 9:00 at night.

Visitors. Two hundred and eighty four visitors stopped at the monument. Fifty nine hours and ten minutes were spent in guiding. Of this time Custodian Caywood spent 14 hours and 30 minutes, and Ranger Mattison spent 44 hours and 40 minutes in guiding the visitors through the mission ruins and the museum.

Custodian and Mrs. Bicknell were visitors on September 13 with two of their family. Sr. Luis M. Carranza of Nogales, Sonora brought the newly appointed Collector of Customs, Tito Livio; Feo de P. Montoverde, Chief of the Border Patrol of Mexico, and Alberto de la Rosa, Secretary of the Collector of Customs.

Maintenance. A lmost all of the time during the month was spent in cleaning up the grounds and on regular maintenance.

TUZIGOOT, by Jack Cotter, Custodian.

Visitors this month, 249; travel year to date, 3,447.

Travel. Last month's high of 415 was due mainly to the swarm of soldiers from a visiting army unit that visited the monument. Otherwise, travel has kept the even tenor of its way, with the vacationless vacation season expiring without a flicker, and the kids tramping back to school with no more than the customary groan. There were no "official" visitors.

Trends. Not a trend.

Guide and contact service. Museum, 28 hours 30 minutes; field, 19 hours 40 minutes.

Personnel time. Custodian Cotter, 33 hours 45 minutes; Relief Ranger Clark 6 hours 25 minutes; Ranger Sowers, 6 hours.

Projects. All photographic prints so far received from the printer have been annotated and filed. About 100 shots are now at the printers, and chances are that it will fall to Ranger Sowers to complete the annotations from notes now at hand at the monument.

With the arrival of 27 lengths of 2-inch galvanized iron pipe delivered by Gene Stonehocker from Gran Quivira, the Race for the Repair of the Water Line hit the last lap. During the final chaotic days of the Acting Custodian's tenure at Tuzigoot, he and Ranger Clark from Montezuma perspired freely digging 550 feet of ditch above the weakest section of the old line. Then, with the arrival of Ted and Cecilia Sowers Sept. 15, Ted and the A.C. blazed into action, hauling pipe lengths, fitting them together, and finally locating the wandering old pipe line to establish the connections. Ever since the 19th, we have been waiting for the Public Utilities Co. to bring over welders from the smelter to connect the new and old lines. As of the 26th they still haven't appeared. But they will, and when they do, the new pipe length will take our water line from beneath the water of a small pond below the railings down through dry ground, so the line will be easily serviced or salvaged in the future.

Ted Sowers has been doing yeoman service at the monument, fighting weeds and helping with the contact work. On the days of the Acting Custodian's departure for for induction (only the third of these departures finally "took"), Ted was in charge of Tuzigoot.

Adios. So, finally, we come to the last paragraph of our last monthly report a A.C. and HCWP at Tuzigoot. The A.C. was poked, prodded and declared sound at the Phoenix induction center Sept. 25, and forthwith was gently hoisted into the Army. We wish our sucessor (as yet undeclared) well, and even more particularly, we extend our warmest hopes to Tuzigoot itself, for which we have an abiding affection. We believe in this monument for itself alone, and for the fine service we believe it capable of delivering to the public. And finally, to our "outfit", we extend our best wishes, and our sincere desire to rejoin it, whenever and wherever the furlough ends.

WHITE SANDS, by Paul R. Stool, Acting Custodian.

Visitors this month, 4,719; travel year to date, 38, 983.

The end of this travel year finds usup to our neck in figures. The past month has shown 4719 visitors in 832 cars; 15 more visitors than this month a year ago wi 286 fewer vehicles. Annual statistics show a visitor decrease of only 25.04 per cent in total travel (despite gasoline and tire rationing) and an increase of 26.6 increase in Armed Forces Use. We have had the pleasure of entertaining 19,551 soldiers and their families this year. New Mexico is still in the lead for visitat by states having 9773 visitors in 2130 vehicles, Texas ran second with 8472 visitor in 2032 vehicles. California with 1414 visitors in 406 cars, Oklahoma 736 people in 191 cars and Arizona with 695 visitors in 196 cars also helped hold up our count Maine sent us 1 visitor to preserve our record of visitors from every state in the Union including the Territory of Hawaii. Mexico contributed 9 visitors in 2 vehicl and Canada 2 visitors in 1 car for the total foreign count.

Weather on the whole has been very pleasant. A high of 102 degrees was observ on August 22,24, 25 and 26 but cool nights including a low of 46 degrees on Septemb 19 have made the few hot days bearable, and 0.04 inches of rain haven't helped drou conditions in this area, We hope for enough rain the coming month to enable Joe to get his roads in first class shape again.

Custodian Faris accompanied by Grader-operator Shepperd made an official trip to Santa Fe early this month in an effort to straighten out a few land problems and boundary changes. Ranger Stool took the Southwestern National Monument reels to the Fort Bliss Reception Center on September 6 for an audience of 253 inductees.

Several large groups from the nearby Air Base have been out on evening picnics and apparently have had a very enjoyable time, one group even bringing a dance band and floor show.

Maintenance has suffered a little this month due to the illness of our Custodia however we have managed to keep things fairly current.

No complaints have been heard and the museum contacts are holding up very well It is amazing how many questions a group of soldiers can ask. We often hear soldier who have been frequent visitors escorting their freinds through the museum explaini the various geological phases in the cases.

The White Sands Service Company is still operating on a part time basis and reports another average month.

Many remarks from visitors prove that words are still the best publicity. Their friends have told them to be sure and see the White Sands if they come this way and most frankly admit planning their route to visit here. No one seems the least bit dubious of the outcome of the War but many of them are tightening their belt for another year of two before victory.

As mentioned before, Custodian Faris has been on the sick list since September 6. After spending a week in an El Paso hospital for treatment an immediate operati was not deemed necessary. He has returned home and, as this is being written is improving rapidly. After spending three weeks as Acting Custodian it will be a genuine pleasure to me to see Johnwill back on the job.

WALNUT CANYON, by Paul Beaubien, Custodian.

Visitors this month 597; travel year to date, 1179.

General. Except for two days of drizzling rain at the end of this report period, we've had clear days and dry roads. The aspens on the monument are still green and others in vicinity are yellow.

Visitors. Of the 597 visitors, 181 were not contacted and it is estimated that 360 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Fish, 28; Beaubien, 35. Park Service visitors were Chief Ranger Dinsmore of Petrified Forest, Ted Sowers, Bill Wilson, and Gene Stonehocker. I regret that I was in town after fence staples when Mr. and Mrs. Dinsmore registered.

Activities. With Seasonal Ranger Fish's period of active duty ending on the 19th, there are only 49 working days to be reported. They were spent as follows; cleanup of CCC trash, 5; reconditioning of tools, 3½; finding, getting repair parts and repairing break in water line, 4½; repairing roofs, 2; loading out supplies for Bill Wilson and Gene Stonehocker and shipping wire to Ajo, 1½; repairing west boundary fence, 2½; constructing and painting house for light plant, 5; overhauling dump truck and constructing a larger bed, constructing a coal bin, hauling three loads coal from beyond Cow Springs, and unloading coal, 7; and, routine jobs of administration, contacting, maintenance of facilities. 18.

Changing trends in public use etc.etc. None were observed.

Projects for ensuing month. Hope to get some more coal. Probably most of time will be spent at routine jobs.

WUPATKI, by Phil Van Cleave, Custodian.

Visitors this month 54; travel year to date 680.

Activities. Two small fires on August 28 and 30 required a total of fifteen man-hours in supression. The first, on Woodhouse Mesa, was put out in less than two hours with the paid help of two local Navajo and the donated help of Mr. Orlo Childs, geomorphologist working in the area. The second near Sunset Crater was handled as a one-man fire.

Parts of three days were spent in the field with Mr. Childs in trying to gain some slight knowledge of the geology of the region of Wupatki Basin. We will be very glad to see his completed work when it becomes available.

Sept. 3 was spent in the vicinity of Black Falls, combining monument inspection with Navajo stock check-up at the time of the local horse and calf branding by the Indian Service. On Sept. 17, the Indian Service Supervisor returned to Black Falls for the sheep count, at which time a thorough recheck of the numbers of Indian sheep being grazed in part or whole upon the monument was made. In regard to this matter it should be stated for the record that the range land on the monument is now in first class condition.

One party of visitors became entrapped in a cinder patch enroute to Highway 89 on leaving Wupatki. An hour's labor extricated them after they had been stuck for over three hours.

Local road repairs have been made as time and facilities would allow, but the need for the use of a dump truck is none the less urgent. Additional repairs have

een made upon the trails around the ruin. A temporary but acute labor shortage s currently being felt because of the use of local Navajo labor in the harvesting f crops in the Flagstaff area.

Weather. Summer is past, and it is possible that fall as well, may be classed th the seasons past; at this writing, the maximum temperature for the day has been ifty nine degrees and very wot and cloudy at that.

General. Wupatki Spring has become radically reduced in flow. It is not yet nown whether the drop is a natural reflection of the weather conditions or due to ome stoppage in the trenches above the settling tank. Investigation will be pursue s soon as possible; in the meanwhile, the present supply will suffice if administer ith caution.

UCCA HOUSE, by Thomas C. Miller, Custodian.

Travel this month - 10; travel year to date - 75.

This area was inspected by the Custodian, accompanied by Regional Director illotson and Naturalist Steen, on September 22. Fence, signs, etc. were in good ondition and no evidence of new vandalism was noted. This was Mr. Tillotson's first rip to Yucca House and Hovenweep and it is believed he now has a clear picture of hese two areas and we hope he likes them.

LEASE NOTE: The general supplement which previously appeared in this position f the report is now being omitted as the general information is to be circulated mong the personnel of the Monuments.

RSONNEL NOTES.

In his recent trip to several of the monuments, Ross Maxwell not only had portunity to see a number of the areas for the first time, but he also got acainted with one or two custodians whom he has previously known only through correspondence. Ross indicates that his warmest greeting was at Tonto where Doc. met m with "So you're the so-and-so who writes all the dirty letters!" Ross was great pressed (as who isn't?) with the Gipe hospitality. He was also loud in his praise what Doc. has accomplished at Tonto with very little to work with. Ross says e is about as capable of accomplishing something with nothing as an Oklahoman, ich is Ross' way of passing out a real compliment.

To some of us who feared that, with the loss of the Boss and Budlong, the STNY st of "salty" characters was permanently depleted, knowledge that McNeil over at cao is building a reputation for himself along the same line will come as refreshg news. Several stories about Mac. have drifted into the office this month. He so proud of his bearhide that he keeps it on display in the back room, and if a sitor has only a few minutes to spend, it is the bearhide and not the museum that ceives the conducted trip. There is some fear around Headquarters that Mac. will nd the bearhide such an attraction that he will keep it as a permanent exhibit ther than cut it up into the necessary pieces for nailing up at Chaco's various ttleguards. However, one overnight visitor urges that Mac keep it around the hous til summer anyway so to wrap up breakfast guests and keep them from shivering so rd that they spill coffee in their laps.

Speaking of overnight guests, Mac nearly got in a jam recently. It seems that me lady hitchiker came to visit Chaco, being dropped off about dusk by one of Mac' eighbors". When the lady learned that there was no hotel at Chaco and that Mac. s a batchelor, she was not at all disturbed but decided to move right in and pay aco a good long visit anyhow. We didn't hear just how Mac handled the situation, t the lady didn't stay at Chaco.

Evidence that Mac knows how to get rid of unwelcome guests is presented by ologist Ratcliff who recently returned from the monument where he conducted an instigation relative to pasturing some Indian Service sheep. Mac had been warned at Ratcliff was coming, and, apparently, visualized his beloved monument as overn with woolies. When Ratcliff drove up, Mac opened the door a crack and unsmiling ld Harold that if he was coming over with any idea of making Chaco into a sheepnch, he could just get right back into the car and go on down the road. Ratcliff nally talked Mac into letting him into the house, but it wasn't until two days ter when Harold finally told Mac that he was going to recommend that no sheep be rmitted to graze on the monument that Mac really thawed out. All of which goes to ow that we have a real custodian at Chaco, and that not much harm is going to bell that monument as long as Mac is holding it down.

On page 18 of the New Mexico Magazine for October it is reported that "Lieutenant ul C. Beaubien was killed in action in the Southwest Pacific in March, 1943". Sinc nthly reports have been coming in regularly from Walnut Canyon, it is assumed that similarity of names exists. Any relative, Paul?

Jim Fulton (Randelier CCC) is new technical corporal at the Recruiting Office Santa Fe. He was right on hand to show Steen the ropes when he took his physical amination at the Armory.

J.W. Hendron, who carried on emergency excavations on the Otowi Section at ndelier investigating ruin sites on the line of the army's road-straightening oject, has his opinion of "armchair archaeologists" as he calls them. It seems at some of the boys from Headquarters came out to "help" Hendron and brought along me exotic potsherds with which they "salted" the dig. The cruel part was the lon time during which they allowed J.W. to sweat his brain trying to figure out an planation for the presence of the sherds in a site so far from their native habit

Bates Wilson visited Headquarters and took in the party staged for "outgoing and incoming personnel". Bates is now with the CB's and, although we do not have his address yet, we will try to get it in time to send him a copy of this issue of "Personnel Notes". Edith and the children will be in Silver City while Bates is gone.

Tod Cronyn (Tumacacori and de Chelly) is still at Fort Sumner, New Mexico, where he is working for the army engineers. Ted writes in that he enjoys reading "Personnel Notes" and wants to be sure that his name remains on the mailing list.

We received a nice long letter from Bob Lister (Bandelier, and Casa Grande) who is now a captain in the army and is Regimental Munitions Officer at Camp Shelby, Mississippi. Bob briefly outlined his movements since leaving the University of New Mexico and stated his desire to reenter archaeology, preferably in the Park Service after the war is won.

Seargent Dale King (Headquarters) recently left Tampa where he has been stationed at McDill Field for Miami, Florida, to attend Administrative Officers Candidate School. Dale is worried because the Southwestern Monuments Association's proposed book on Arizona's National Monuments has not yet been published and offered any assistance in his power to forward the project.

Don Egermayer (Casa Grande and Saguaro) is a flight instructor with the Ryan Aircraft Co. in Tucson. He is very happy in his job and is getting in quite a number of hours in the air in addition to his regular work. Ruth is Chief Hydralics Inspector at the Consolidated Assembly Plant, also in Tucson. The Egermayers are busy happy, and glad to get news of their former associates in SWM. Don indicates that if he survives all of his cadets' clumsy landings, he expects to live through the war.

Help! help! Who can give us current addresses for C. Sharp and for Lieutenant Ray Ringenback? Letters sent to Ray's last known address are being returned, and when last heard from C. Sharp had gone into the navy. We would like to send "Personnel Notes" to these fellows, but cannot do so without current addresses. If you have addresses for one or both, please drop us a postcard at your earliest convenience.

A hurried note from Corky Jones reports that she has gone on furlough to visit Davy who is now stationed at Will Rogers Field in Oklahoma City. Davey expects to be sent overseas as soon as he finishes this final stage of training, and Corky wants to be on hand to say "Goodbye". Davey's Park Service uniform, previously reported as for sale, is available at Flagstaff. The coat is size 38, and the trousers 28 waist, and 44 length. In his travels, Davey has visited Hugh and Chris in Chicago and Dale at Tampa. He ran across one of the Navajo boys from Wupatki who is loud in his praise of Phil Van Cleave who has, apparently, stepped right into Davey's shoes. Phil. is writing to the Wupatki Navajos who are in the armed forces keeping them posted as to the activities of their relatives. Davey says the most difficult thing about the training is going to bed at 7:15 P.M. and getting up at 7:15 A.M. Guess that's where all the photoflash bulbs are going.

Johnwill Faris has had another attack of kidney stones and, according to last reports, left for Los Angeles on November 20. He will undergo an operation there and should return to the monument good as new. Paul and Roy have Harry Reed to help them carry on while Johnwill is gone.

Earl Jackson, also, is under the weather. For a time the doctor thought he had Undulent Fever, but laboratory tests show a recurrence of tuberculosis. Indications point to at least six months in bed for Earl. He will appreciate letters from any of you. Its a tough break for Earl and Betty!

Headquarters personnel were shocked to learn of the death, in September, of Bob Ariss' wife in San Diego. Bob (formerly seasonal at El Morro) is with the navy.

Judy Eden, who is helping her folks on the cattle ranch at Bayfield, Colorado, writes that Jim is now in port somewhere "on the other side". Jim enjoyed the voyage across very much and likes being a "deep water sailor". We wonder if he is seeing action at the Marshalls and Gilberts.

Charlie Steen (Headquarters) also arrived "at port" at Camp Claiborne, La. He comments caustically that he would get along better if rookies weren't mixed into the same squads with experienced trainees.

Lieutenant Tom Onstott (Chaco, Tonto, Bandelier) has been reported injured in a parachute jump. Apparently the injury is serious and may result in a medical discharge.

Lieutenant Jesse Jennings (Montezuma Castle) is now in Iceland. If anyone has his address, please send it in as we'd like to send him "Personnel Notes".

Oh yes, in mentioning Earl Jackson, we forget to report that Earl is now in li to receive congratulations on his splendid article on the Road Runner, in the Sept.-Oct. issue of "Arizona Highways". And when you read the article, be sure to turn to the editorial page and note the editor's comment on Earl, himself.

Those of you who know Paul Lightle (B.P.I representative who worked with the giant cactus disease control project at Saguaro) will be interested to learn that Paul is an Ensign in the navy and that he recently was torpedoed when the transport on which he was stationed was hit. Paul escaped without serious injury.

Boz Frost (fireguard Saguaro) is now in the Marines, and his brother Marvin Frost Jr. (de Chelly) is married. That sounds as if both boys are in the armed for doesn't it?

Reports of activities during the recent hunting season haven't all come in yet, but we do know that Art. Thomas and J.M. Hendron each got a turkey and that Tony sh a deer. Art and J.M. think Tony might have selected a better spot for the kill as they had to help pack the carcass out of the bottom of a deep, steep-walled canyon.

Jack Cotter passed through Santa Fe on October 4 enroute to Boulder, Colorado, to visit his folks before entering the army. When last heard from, Jack was at Ca Roberts, California, and Virginia and Gussie were visiting in Pennsylvania.

Natt Dodge and family also spent several weeks in Boulder, Colorado, where they went to harvest Natt's mother's apple crop because local pickers were unobtainable. When Natt returned it didn't take long for office personnel to find out that he had NOT been on a vacation as he was somewhat touchy on the subject. Natt brought his mother back to Santa Fe for the winter, and she has already started in on the Headquarters Library where she put in five months last winter. She hopes to get the library into shape so that it can be used by field personnel desiring to make u of the many books "stored" there.

Joe Martinez (Bandelier CCC) now in the Medical Corps, was in Santa Fe on his first furlough. He telephoned to the boys on the monument being unable to get out there to pay them a visit. He is stationed in Florida.

Gene Brooks, secretary to Chuck and Ross Maxwell, has been on annual leave but has not yet returned to the office because of illness. Gene is a real westerner coming to work in Levis and on horseback. Rumor has it that her father has recently changed over from cattle to sheep, and this may be the cause of Gene's illness. In Gene's absence, Dorothy (Mrs. Erik) Reed has been helping out the administrators.

Shortly after Charlie Steen left for camp, Mary received word that the house was for sale, so she up and moved. She reports that she is in a much more desirable place now, and is glad that the emergency developed. Mary is working part time with an organization interested in bettering the condition of Southwestern Indians and finds the work most interesting.

Betty Toulouse, also, has been quite ill and was in the hospital in Santa Fe f several days. She is up and around and back home again now, but says that she is ju realizing how many miles per day she covers chasing after Party.

In closing this issue of "Personnel Notes" it may not be out of place to bring t your attention the fact that the only person in the Headquarters Office whose name runs from A to Z is Miss Alvira Zimmerman. But what's in a name?

P.S. A report which comes in just as "we go to press" indicates that George Baxter got his deer this year without firing a shot. More details next time. Adios!

NATIONAL MONUMENTS TRAVEL STATISTICS

SEPTEMBER, 1943

Station	1943	1943 Travel Yr. to date	1942	1942 Travel Yr. to date	Increase or Decrease	% Incr. or Decrease	1944 Fiscal Yr. to date	1943 Fiscal Yr. to date	Incr. or Decr.	Incr. or Decr.
Arches	87	855	131	1806	-951	-52.6	266	372	-106	28.4
Capulin Mountain	1498*	11898*	3300*	24400*	-12502	-51.2	7500	12300	-4800	-39.0
Chiricahua	430	3449	701	7517	-4068	-54.1	1225	3244	-2019	-62.2
Natural Bridges	26	175	83	240	-65	-27.1	86	194	-106	-55.7
Organ Pipe Cactus	4943	50842	2904	10675	+40167	+376.2	14831	6090	+8741	+143.5
Rainbow Bridge	5*	15*	0*	70*	-55	-78.5	10*	20*	-10	-50.0
Saguaro	236	5307	411	9949	-4642	-46.6	797	796	+1	+0.12
Sunset Crater	374	3249	829	6733	-3484	-51.7	1414	3519	-2105	-59.8
White Sands	4719	38983	4704	52005	-13022	-25.0	14824	18657	-3833	-20.5
TOTAL BIOL.-GEOL.	12318	114773	13063	113395			40953	45192		
Aztec Ruins	875	4979	1006	6896	-1917	-27.8	2332	3454	-1122	-32.4
Bandelier	330	4171	472	4394	-222	-5.1	1931	2034	-103	5.0
Canyon de Chelly	23	403	167	1549	-1146	-73.9	132	574	-442	-77.0
Casa Grande	549	7844	757	15887	-8043	-50.6	1355	1873	-518	-27.6
Chaco Canyon	252	955	65	586	+369	+62.9	668	266	+402	+151.1
El Morro	34	346	91	589	-243	-43.0	137	244	-107	43.8
Gila Cliff Dwellings	10*	40*	12*	140*	-100*	-71.4	28*	115*	-87	-75.6
Gran Quivira	21	429	64	1405	-976	-69.4	153	402	-249	-61.9
Hovenweep	2	102	30	104	-2	-1.9	18	65	-47	-72.3
Montezuma Castle	313	2849	490	5972	-3123	-52.3	1028	1511	-483	-31.9
Navajo	6	62	20	138	-76	-55.0	25	37	-12	-32.4
Tonto	175	2874	278	5335	-2461	-46.1	519	652	-133	-20.4
Tumacacori	284	4779	385	6590	-1811	-27.4	955	1312	-357	-27.2
Tuzigoot	249	3447	509	6036	-2589	-42.8	923	1598	-675	-42.2
Walnut Canyon	597	4919	1179	8710	-3791	-43.5	1957	4028	-2071	-51.3
Wupatki	54	680	129	1585	-905	-57.1	195	413	-218	-52.7
Yucca House	10	75	14	93	-18	-19.3	17	45	-28	-62.2
TOTAL HIST-ARCH	3784	38954	5668	66009			12373	18622		
GRAND TOTAL FOR SEPT	16102	153727	18731	179404	-25677	-14.32	53326	63814	-10488	-16.1
LAST MONTH	19109	137625	26472	160673	-23048	-14.3	37224	44721	- 7497	-16.7

*Estimated

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

November, 1943

MEMORANDUM for the Custodians,
Southwestern National Monuments.

October narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Assistant Regional Director.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities. Associate Naturalist Dodge was in the office carrying on routine interpretive duties until October 12 when he went on annual leave. He spent the balance of the month in Colorado assisting his mother harvest her apple crop.

Assistant Naturalist Steen entered the armed forces of the United States on October 18. He spent all of his on-duty time in the office completing the report "Excavation of the Upper Ruin, Tonto National Monument," in coordinating reports of interpretive plans from the field, and other routine activities.

Routine reports required of the department were prepared by Custodian Toulouse in the absence of the regular interpretive staff members.

Master Plan Studies - Reviews. A discussion was held with the Regional Director, Regional Architects, and Superintendent Smith relative to proposed physical developments at Pipe Spring National Monument in relation to plans-on-the-shelf.

Consultations on Developments. In an effort to aid the architects in preparing plans for proposed interpretive developments at Petrified Forest National Monument, information on desired details of the museum building extension were requested from the Superintendent.

Extension Services. Lectures given by Associate Naturalist Dodge while on leave, as follows:

Oct. 14 Alamosa Kiwanis (26) on National Monuments of Arizona.
Oct. 22 North Side Junior High School, Boulder, Colorado, on Sonoran Desert Monuments (425 pupils and teachers)
Oct. 30 Niwot, Colorado, Grange (65), National Monuments of Arizona and New Mexico
Oct. 31 Boulder, Colorado, joint meeting Colorado Mountain Club and Rocky Mountain Climbers Club (58), National Monuments of Sonoran Desert.

Library. Thirty-six books, 12 pamphlets and 4 reports were received during the month.

Southwestern Monuments Association. A meeting of the legally constituted Board of Directors was held and several matters of business completed. Charles A. Richey was elected chairman of the Board of Directors, Natt N. Dodge, appointed as Executive Secretary, and Elizabeth W.M. Jackson, appointed as Treasurer. Several members of the Board resigned due to pending induction into the armed forces or transfer to distant locations, and other persons were nominated, subject to their approval, to fill the vacancies. All quarterly

Arizona Archaeological Society

assignments accounts were paid.

Status of Archeological Projects. Assistance was given the custodian of Bandelier National Monument in cataloguing artifacts found in the excavation of Betsui's Ruin #2, an emergency excavation recently completed to clear the road-straightening line on the Otowi Section.

Photography - Visual Aids. All projection slides on Big Bend National Park were projected for the Regional Director, Superintendent Maxwell and other interested members of the Region Three staff preparatory to use of the slides anticipated in the near future. One Hundred and forty kodachrome slides were cleaned and mounted by Custodian Toulouse for this office and Bandelier National Monument.

Office Visitors. Superintendent Smith of Zion-Bryce National Parks, and Custodian Thomas and Ranger Hendron of Bandelier National Monument had official business with the interpreters.

Reaction of Visitors to Interpretation Program as Influenced by the War. Casa Grande and Aztec Ruins National Monuments report that travel consists mainly of people going between jobs, principally war industries who are shifting their efforts to the Southwest and transferring their personnel. Armed force-use is but a minor part of travel at all areas with the exception of White Sands. The recent cut in gas rations in New Mexico and Arizona has been felt in the drop off in travel. Tumacacori reports Nogales, Sonora, as out-of-bounds for Army personnel and a consequent decrease in travel has been felt.

Miscellaneous - Routine - Overhead. Annual Animal Census reports from the field were coordinated and forwarded to the Director's Office. The usual monthly reports were checked and submitted.

Projects Planned for next Month. Several routine reports requested by the Director's Office will be coordinated. No projects have been planned as it is anticipated that considerable correspondence accumulated during the absence of staff members, together with the usual amount of incoming work will take the entire time of the remaining staff member.

AZTEC RUINS, by Russell Mahan, Acting Custodian.

Visitors this month, 440; travel year to date, 440.

General. Our travel for this month showed an increase over travel for the same month last year, a good percentage of the visitors being people who were changing place of residence and visiting places of interest enroute. They all showed much interest and did not seem to be hurried.

Custodian Miller was on annual leave from Sept. 28 to Sept. 30 to push the War Bond drive in this end of the country, he being chairman of the committee. He reported excellent success and the area exceeded its quote by a good margin. He was on leave again from Oct. 22 through the end of the month to play the Good Samaritan for a neighbor who is seriously ill. He is taking charge of the round-up and shipping of cattle for this man.

The custodian made an inspection of Natural Bridges, Hovenweep, and Yucca House National Monuments, in company with Assistant Regional Director Richey, from October 13 through October 15, and Mr. Richey spent part of the 16th and 17th on inspection and discussion of various problems at Aztec Ruins.

Weather. The cold weather has finally arrived and frost has been with us since October 13 when the thermometer registered 26 degrees. A low of 25 degrees occured on October 20. The maximum was 79 degrees falling on October 3 and 17. We had a total of .96 inches of precipitation during the month with light flurries of snow on October 19. We had 22 clear days, 1 partly cloudy, and 7 cloudy days.

Use of Monument Facilities. A total of 440 people visited the area in 158 cars and came from the following states: Arizona - 5, Arkansas - 6, California-

42, Colorado - 87, Connecticut - 1, Florida - 5, Idaho - 1, Illinois - 11, Indiana - 1, Kansas - 5, Michigan - 1, Mississippi - 1, Missouri - 11, Montana - 1, Nebraska - 6, New Mexico - 175, New York - 8, Ohio - 7, Oklahoma - 23, Pennsylvania - 1, Texas - 26, Utah - 8, Washington - 1, Wisconsin - 5, Wyoming - 2. Of the above 259 people in 69 parties visited both the ruins and the museum and the balance of 181 people were contacted and given information service. Guide time was as follows: Custodian Miller - 34 hrs.; Ranger Mahan - 76½ hrs. A total of $52.68, including tax, was collected for guide fees. Six waivers were issued and a total of 48 children visited the area, 14 of whom were charged tax.

National Park Service Visitors. Assistant Regional Director Richey inspected the area on October 16 and 17.

Parke Soule and son, Pete, stopped in to see us on their way north to Parke's new station at Yellowstone National Park.

W.L. Bradley, Engineer on Soil and Moisture work, was in on October 5 regarding hiring of labor, etc. for S & M work at Canyon De Chelly.

Custodian McNeil of Chaco Canyon was in on October 11 to see how we were treating his equipment and wondering if he would ever get it back again.

Maintenance and New Construction. The water line project was finished during the month with the placing of an air cushion in the storage tanks and back-filling of same. The pressure on the line is much better and we have placed a valve in the line so that we can cut in with 2 inches of hard water, bypassing the softener, in case of fire. We have also made a rough sketch of the water lines, as they now exist, so that the next man who has to excavate them will be able to locate them without digging up the whole area.

Ruins Stabilization and Drainage. Our female Navajo laborer quit us on September 30 and on October 11 we hired Jerry Denetso to take her place. Roy Newton, another Navajo who was going to report for work here decided to remain at Chaco Canyon and work for McNeil on his stabilization crew.

The bulk of our work this month has been to try to eliminate the underground flow in the subterranean rooms. A 10 foot joint of 10 inch well casing was driven below the floor of Kiva I, in the northeast corner of the courtyard to try to strike a strata that would drain off the flow. This was not successful so we purchased a 20 foot joint of 8 inch used well casing and this was driven down inside the 10 inch casing, to a depth of 18 feet, at which point no more progress could be made. An auger was used to deepen the hole to 25 feet, at which point we struck a boulder. Heavy drills, etc. were used to try to break through this boulder but without success so we sealed off around the top of the casing with cement and pumped the water three times a day, with no evidence of any underground run-off. The hole below the casing kept caving in and filling the bore up to the bottom of the casing. After discussion with Mr. Richey, it was decided to sink test wells on the west side of the ruin, near the boundary, to try to tap the underground flow outside. This job was started on October 18 and a well 6 x 6 feet was sunk to a depth of 12 feet at which point the flow was struck. A 4 x 4 foot sump was then excavated and cribbed up with poles and the pump was installed. It has been pumped twice a day due to the fact that there is a heavy flow. There is no visible evidence that there is a decrease of flow in the kivas and it will probably be necessary to sink more wells east of the present one in order to tap the flow which is putting water into the kivas. To date it looks like we have accomplished nothing in regard to the elimination of this water but it is not because we have not been trying. It looks like the only solution will be a trench along the north and east sides of the ruin, to a depth sufficiently below the flow line, so that this water can be carried off and down to the river.

HOVENWEEP.

Visitors this month, 0; travel year to date, 0.

The custodian inspected this area, including all outlying groups, on October 15 in company with Mr. Richey. No visitors had signed the register and it has been taken for granted that none visited the area. The stabilization work performed previously was in good condition and things in general were found to be in good shape.

YUCCA HOUSE.

Visitors this month, 4; travel year to date, 4.

This area was inspected by the custodian and Mr. Richey on October 15 also. No evidence of vandalism was apparent and only 4 people signed the register during the month.

NATURAL BRIDGES.

Visitors this month, 2; travel year to date, 2.

The custodian and Mr. Richey inspected this area on October 13 and 14, making the 9 mile trail trip to the bridges as well as inspecting some ruins under the rim northeast of Kachina Bridge. Everything was found in good order and tents and equipment all in good shape for the winter.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 426; travel year to date, 426.

The dry weather of the summer was broken somewhat this month by two light rains; one occurred the early part of the month and one the latter part. We even had a snow squall on October 20. No snow lay on the ground, but the air was filled with flakes for a few minutes. We had a total of .70 inches of moisture for the period. Maximum temperature was 76 degrees and minimum of 21 degrees was recorded on the 21st.

Roads have been almost impassable due to the heavy construction from the Rio Grande to the Otowi turnoff.

The month generally has been one of activity. The usual chores of ending the summer season and preparing for winter have kept us busy. Just as suddenly as they decided to occupy the Lodge, the Army Engineers decided to vacate it. All Army personnel except cooks, waitresses, and chamber maids was removed October 15. The Army Access road across Otowi is about 65% complete except for black-topping which will now have to wait until spring. It is now rumored that the contract for the bridge across the Rio Grande and the section of road from Rio Grande to Tesuque have been cancelled and a survey has been started for the road thru Espanola. Our interests would have been best served by the route thru Tesuque and we regret to hear of the change in plans. Practically all of our visitors came on Sundays, leaving us the week days for maintenance of equipment and buildings.

Inspection. Archeologist Steen spent October 5 at the Monument helping us get started on the job of cataloguing the huge collection of museum specimens obtained from the archeological excavations of the summer. A great deal of time this winter must be spent on the cataloguing job. Regional Chief of Planning Cornell and Architect Bennett inspected the Lodge buildings and government owned equipment after the Lodge was vacated by the Army.

Army Activities. All Army personnel were moved from the Lodge to the Site on October 15. The manager and his staff stayed until the 21st cleaning up and inventorying. The custodian in company with three Army officials made a complete inventory of government owned furniture and equipment. All furniture was

accounted for and found to be in good shape. Buildings were inspected with Army appraisers and found to be in remarkably good condition despite several months of intensive use.

Fauna. Wildlife continues to be plentiful in the Canyon. Deer are seen almost daily and a flock of 25 turkeys has been ranging in and out of the Headquarters area frequently. For the first time since I have been at Bandelier, there is an abundant pinyon crop. Indians and natives have been gathering quantities of the nuts in the vicinity of the monument. Fishermen still report excellent catches about 3 or 4 miles up the Canyon, but fish are scarce close to the Headquarters. Quail are frequently seen around the Lookout and in White Rock Canyon, but none have been noted in the Frijoles as yet.

Guide Service. 426 visitors were registered during the month. A high percentage were report picnickers, fishermen and others from Bruns Hospital in Santa Fe and nearby Los Alamos; 172 people were conducted thru the ruins in 26 trips. Time spent in interpretive service: Hendron - 22 hrs; Thomas - 24½ hrs.

Personnel. Mrs. Jewell L. Eden was terminated as seasonal ranger September 28. Judy has made a remarkably good ranger; visitors and those who worked with her have nothing but praise for her performance. General Mechanic Valencia took two days leave occasioned by the death of his step-father. Ranger Hendron took one day annual leave, and the Custodian 1½ days during the month.

Maintenance. All un-occupied buildings were drained and prepared for winter Anti-freeze was placed in all automotive equipment. Furnaces were overhauled and placed in operation in the residences and office building. An oil furnace was installed in Residence #3. Mechanic Valencia experienced trouble last winter keeping the house warm with only the fire-place. Material was purchased and a new oak floor placed in the Chevrolet pickup bed. A new ladder was constructed and placed at the Cave Kiva. A load of lumber was finally obtained for maintenance work. Seven tons of hay were purchased and hauled from Santa Fe. Thirty Council type fire tools were repaired and transferred to Big Bend National Park. Three backpack pumps were repaired after the fire season. The telephone in Residence #2 was knocked out by lightning last June. It was repaired and re-installed. Two trucks were given a paint job.

Projects for the ensuing month. Next month we plan to make and install 15 campground table tops, place some signs, and spend a good deal of time patrolling the monument during the hunting season. Some work will be done on the water intake system if time permits.

CANYON DE CHELLY, by M.M. Guillet, Custodian.

Visitors this month, 20; travel year to date, 20.

Weather. Ideal fall weather has prevailed most of the time with the nights cool and the daytime temperatures in the upper seventies. We did however, have one cold spell beginning the 19th which brought to mind the fact that winter is just around the corner. The maximum temperature was 80 degrees and the minimum was 28 degrees. There were 20 days when the maximum went above 75, and 5 days when it was below 65 degrees. There have been seven days with a minimum of 32 degrees or less. Rainfall for the period measured 1.09 inches.

Administration and Maintenance. On October 1, a trip was made to Gallup via Window Rock, Arizona, where I made arrangements for the purchasing of fuel oil for my winter use. I have been unable to get drum deliveries from the oil companies in Gallup and had quite a time trying to figure out how I was going to store the fuel. I was finally able to borrow a 150 gallon tank from the Indian Service, and a 55 gallon drum from Cozy McSparron. I repaired these and I now have this problem solved.

Assistant Regional Director Charles A. Richey arrived on the night of October 5. He was here for the better part of two days, having left on the

afternoon of October 7. We were surely glad to see him and I got lots of good out of his visit. A party of visitors were stuck in the sand on his arrival so he went right along and helped us get them out.

W.L. Bradley of the Soil and Moisture arrived with foreman Jordan on October 8 to make plans for the work at White and Antelope houses.

The custodian took seven days of annual leave beginning October 9, and went to Colorado on business and pleasure, the pleasure being an elk hunting trip with a bunch of the boys from Mesa Verde. I didn't get my bull, but was able to fulfil my promise to the Navajos to bring them some tallow from an elk which they believe is good medicine.

A great deal of time has been spent in trying to unplug the drain between the laundry tub and the kitchen. I've tried most everything but a charge of dynamite but as yet have had no success. I believe that during the high water, sand and silt must have washed down the floor drain and settled in the pipe. I dug under the house but was unable to find the pipes which seem to be layed in reinforced concrete.

The shelves in the storage hogan were stained and the deep holes and gorges in the road have been filled and the roughest places smoothed over to make the road a little more passable.

A check was made on the number of culverts needed to correct the drainage of the road and arrangements are being made to haul the culverts over from Chaco.

Soil and Moisture. Foreman Jordan arrived to begin work on the Soil and Moisture project on the evening of October 17. Workers and teams were hired and work has been going along nicely. All of the oak posts for the spiders have been cut and hauled from the mountain near Sawmill and most of the work at White House has been completed. At present work is being done on the rock revetment.

Visitors. The greater part of the visitors continue to be artists and photographers, many of note, including J.H. Mc Gibbenay, H.D. Waters, and W.D. Eldridge of the Salt Lake City Chamber of Commerce. Gerard Curtis Delano, whose paintings appear on the calendars of the Santa Fe railway, Dr. E. Leslie Eames, who sometimes works with Ivan Dmetri of the Saturday Evening Post, and Agnes Sims of Santa Fe, New Mexico, were among our visitors. Joseph S. Bittner of the Treasury Department visited the area on the 21st.

A total of 20 persons visited the area this month and represented 7 states; Arizona, California, Arkansas, Indiana, Colorado, Utah, and New Mexico.

War Reactions. The recent decrease in gasoline rations is beginning to make itself felt. With C rations being reduced to 2 gallons in New Mexico and 3 gallons in Arizona, it will not be probable that many will get this far from the main travelled routes.

Projects for Ensuing Month. Continuing to help with the Soil and Moisture job when needed, getting the laundry drain to wroking, road and trail work, and routine guide and office work.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 1,000; travel year to date, 1,000.

Approximately one thousand visitors came to the volcano during October. This appears to be about the same as of one year ago. I have not been able to give the visitors much of my time this month, as I have been so busy with many other things. One very interesting visitor was John Randolph, Consul General of the United States. He told me that he had been on duty in the Russian capitol for two years. Well, we went over the war situation pretty thoroughly and we licked the enemy but not as easy as I had anticipated.

Weather throughout the month has been very dry, no precipitation, with pleasant days and cold nights; unlike the October of last year when we had

several inches of moisture.

Roads on the monument are in splendid condition having had the usual dressing and rock removal during the month. The dry weather has kept the custodian filling some rather stubborn chuck holes broken thru the crust into the softer cinders. However, they are all in very good shape now.

CASA GRANDE, by A.T. Bicknell, Custodian.

Visitors this month, 781; travel year to date, 781.

Visitors. This month is the first since November of 1941 to show an increase in travel over the same period of the preceding year. The increase is 15%; visitors during October, 1943 - 781, during October, 1942 - 679; this gives us a nice start on our travel year. The fiscal year still shows a decrease over last year - 19.5% in cars and 16.3% in visitors.

Seventy uniformed members of the Armed Forces are included in the visitor total, coming from 20 different stations.

Interpreter's Reactions. It might be expected that an increase in travel at this time would be due to increased visitation by members of the Army, Navy, etc., but the bulk of our travel still comes from civilians (the Armed Forces account for only 13.9% of the visitors to the ruin during October).

After thinking back on the parties we've talked with during the month, we remember that a rather large number of them were people who had been transferred by their company to their southern Arizona branches - part of the wartime decentralization of industry. Some of our visitors were families of men now on overseas duty who, wishing to be near the Coast but escape crowded conditions in California, are making their homes for the duration in Arizona. And there are, this year as before, people who are spending the winter in southern Arizona on their doctor's advice.

To all of these groups we feel a bit more obligation than we do in peacetimes; most of them are here, not from choice, but because of the upset of war or their health; most of them feel like strangers in an unknown land and are badly in need of new recreational interests. If we can give them a glimpse of the fascination of reconstructing history from pots and ruined walls and bits of jewelry - or of the varied and specialized plant and animal life that goes on in the seemingly bare and forbidding desert, we may have done more good than we do in talking with twice their number of tourists-by-choice in times of peace.

Use of Monument Facilities by the Public. 501 visitors were guided through the Casa Grande in 88 trips; 327 were guided through the museum in 68 trips. Total guiding time during the period was 96½ hours; 311 tickets were sold, and 280 visitors entered the monument without making the trip to the ruin.

Weather. Almost ideal; maximum temperature was 99 degrees (on the 30th and the 1st); minimum was 38 degrees (on the 20th and 21st). Precipitation totaled 1.67 inches, in four rains.

General. Allotment advice for the current fiscal year was received during the month. A good deal of time has been spent since then trying to figure how necessary expenditures can be pared enough to be covered by the amount alloted (we suspect we weren't the only ones doing this type of figuring this month).

On the 28th, Teddy Bachr went to the Indian Service doctor at Sacaton for his physical examination incident to the extension of his appointment. Chief Clerk Luis Gastellum of the Grand Canyon spent a few hours visiting here on the same day.

Ranger Brewer went to Tucson on her day off the 4th; she spent the next day with Dr. Haury and members of the Anthropology Department at the University, and was on annual leave the rest of the week, returning to duty the 10th.

Bill and Ann Supernaugh came up from Organ Pipe for some materials on the 11th; Bill found it to his advantage to use the power saw to rip some of the

lumber, so returned to Organ Pipe on the 12th.

The Lt. Parkers moved from the monument on the 2nd; the quarters they had have not been rented as yet.

Maintenance. It seems that our maintenance problems are increasing, as some lines of parts have been discontinued. We are having trouble getting repairs for the obsolete type tank-filling valve in the comfort stations; one is completely out of order, and we are trying to keep the others in operation. Both washing machines are now out of order.

Nature. The Casa Grande owls haven't returned this fall! They were last seen on June 28, which makes their absence an unusually long one - we're beginning to be afraid they met with foul play (no puns intended) during the summer.

The pair of Sparrow Hawks that were first noticed in the ruin shelter in August are still there, making occasional dives toward the desert from the height of the girders. Two other shelter dwellers are a pair of Gilded Flickers, who were first seen on August 22; their favorite perch is the copper drainage pipe - a noise a little like a machine gun sometimes startles visitors and turns out to be one of the flickers hammering on the pipe.

The most interesting bit of wildlife in the ruin this fall was discovered by a visitor one busy Sunday (the 17th) when he told the custodian there was a rabbit sitting in a hole over the third-floor doorway! The custodian was a little skeptical, naturally. The "rabbit" turned into a Ringtail Cat on closer inspection - the cat was watching the crowd from the "bee hole" in the north ruin wall, as fascinated by the people as they were by him.

Bats are now evident only by squeaks and the odor they have bequeathed to the ruin; the few remaining individuals seem to be far back in the wall cracks. The whipsnakes haven't been seen for over a month. From Associate Naturalist Dodge we learn that published records of snakes eating bats are rare, if not non-existent - so that makes the way of our snakes with our bats doubly interesting.

CHACO CANYON, by Irving McNeil, Custodian.

Visitors this month, 203; travel year to date, 203.

There were 203 visitors to Chaco during this past month, coming in 72 automobiles from the states of Arizona, New Mexico and Ohio. Of these, 17 had time to see the ruins, and formed 5 parties. The custodian spent a total of 9 hours and 35 minutes with the parties. All were very much interested. Especially so, was a young captain in the air forces who had just returned from the African-European War Front. He was interested in comparing the ruins in Egypt with those of ours. All parties, except one, stopped by enroute to some other point.

The weather, on the whole, has been very agreeable for the entire month - warm days, cool nights. The thermometer climbed to 83 degrees on three days, October 4, 5, and 9; and dropped to 20 on October 24. There was a little snow in the morning of the 21st, and a total precipitation of .35 of an inch for the month. The approach roads to the monument remain in fair shape.

There were several National Park Service visitors during the month. Assistant Regional Director Richey was in on the 17th and stayed until the 19th. As usual he went over the place with a fine-toothed comb, and gave this custodian many helps and suggestions. His visit was appreciated - wish that he could make them more often than twice a year. Incidentally, it is still very easy to prepare a stock for him, all that is necessary is to cripple the critter and run him in!

Assistant Engineer Bradley and Foreman Stephen Jordan were in on the 8th and 9th, and again on the 14th through the 16th. They came to get a much needed Soil and Moisture program started. The crew started to work on the 11th.

Also Professor Paul Reiter, from the University of New Mexico, was in on the 9th and 10th, to look over the Field School after the summer occupancy by the seasonal ranger, and to complete arrangements for an oil company to rent the property for the ensuing winter. His visit, too, was enjoyed very much, and he found the equipment in excellent shape.

The custodian was on annual leave several days during the month to have some dental work done in Albuquerque. While there, he attended the State Fair where one of his neighbors won grand champion in the calves, and another won a place with his horses.

A number of horseback patrols have been made during the month. Now that winter is again approaching, the neighboring livestock seem to be able to get through the gates and fences much more easily. Couldn't be that they are helped into the area because the grass is better! More frequent riding will solve the problem though. Several patrols were also made in the pickup.

Five signs were given three coats of paint. They look so bright, that some of the visitors remarked about the "new" signs.

Several coveys of quail, a large number of rabbits, one snake (a small bull snake), several porcupines, and antelope squirrels have been noted near the Headquarters area recently. Too, a coyote is heard now and then - proof that the trapper did not catch all of them last winter.

Just as final preparations were made for installing the water pump and motor, Custodian Cal Miller came down and borrowed it. During this next month, if it is returned, it is hoped that it will be installed.

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month, 214; travel year to date, 214.

Visitors. Travel continues to decline; the cutting of the gasoline ration from four gallons to three is believed to be a contributing cause. Visitor reactions do not appear to be out of the ordinary.

Maintenance. Trail work has taken much of the available time and another month will be spent in getting them back to normal appearances; much difficulty is encountered in obtaining dirt to cover the rock base, resulting in wheelbarrowing it a long distance. The "Historical Marker" was erected at the junction of State 181 and US 666 roadways.

King of Lead Mineral Access Road. Construction of the mineral access road was started by the Forest Service on October 4. They had an unfortunate fatal accident to their Equipment Operator, Harry V. Lively, when the bulldozer rolled over on him, and this curtailed their progress for awhile. Residence No. 3 has been rented to the foreman as a cooperative measure, saving them the necessity of erecting a camp and moving some equipment.

Weather. There has been several mornings of light frost, but as yet a killing frost has not occurred at the lower elevations of the monument. The sycamore and walnut trees still have green leaves.

General. Everything is going along in the same old slow way at Chiricahua. About the only thing that still raises our temperatures is to receive some of those instructions which quote a list of letters with a few figures thrown amongst them and look as hard as we can, we can't find them in our dictionary. A trip was made to Bisbee (County Seat) to obtain records of private land holdings for the Director.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 21; travel year to date, 21.

Weather. Most of this month has been very nice, however we had our first

light snowfall on October 19. Maximum temperature, 76 degrees on Sept. 30; minimum, 21 degrees on October 23. Precipitation, 1.53 inches.

General. Visitors have all arrived on Sundays this month. The farmers of the community are still busy getting in crops before cold weather, and we have not been able to hire a relief man for some time.

Use of Monument Facilities by the Public. Twenty one visitors arrived from the following states: New Mexico - 10, Florida - 5, Arizona - 3, Washington - 2, Colorado - 1; 7 visitors wanted information only, and 14 made the trip around the rock in 3 conducted tours. Total guide time was 5 hours, all by George Baxter.

Maintenance, Improvements and New Construction. Most of the month was spent in work on moving the ranger cabin, and putting in doors and windows. The birds didn't seem to realize I had part of the windows in and one rather large bird went right on through one of the windows. Guess I shall have to put screens on the windows next. Chinked between the logs on part of the cabin using a mixture of bituruls. Don't know just how this will work, but looks like it would be all right.

Since our old cellar is torn down, I had to figure out a place to store our bituruls before cold weather. It looked like the furnace room was the only place, so I emptied one barrel into the other, took the empty barrel down in the basement, then carried the bituruls down in a bucket and put in the barrel. More fun!

I spent several hours working on dump truck everytime I wanted to use it for a small hauling job, cleaned out flues of residence, patched leaks in roof of residence, put Prestone in the pickup, and started building a coal shed out of logs.

Projects for Ensuing Month. Continue work on cabin. Bring in all the road signs between El Morro and Grants so they can be repainted this winter, finish coal shed, and hope to get coal hauled.

GRAN QUIVIRA, by Joe H. Toulouse, Custodian.

Visitors this month, 20; travel year to date, 20.

Continuing and Routine Projects. The major portion of the month the custodian was absent from the area, on special assignment and on annual leave. Much of the period of special assignment was spent putting in order personnel research files of payrolls and the making out of special reports for the Office of the Director on personnel requests. Some 142 kodachrome slides were mounted for the Region Three Naturalist's Office, Bandelier National Monument, and this area, in the short time between special assignment and annual leave. This custodian went on annual leave from October 14 to 25, and expects to report again to Regional Headquarters for the remainder of the month after the 27th - Region Three being rather short-handed at this time.

Cooperation with the local committee on the National War Fund drive has been one phase of this custodian's participation in local contact work. Too little time, however, has been available to help out as much as would have been desirable.

Continuing Projects. Upon the return of this custodian to his area in November, the installation of storm sashes and other preparations for this coming winter will be made. Finish the mounting of the kodachromes for the naturalists and further work on the two reports for the interpretative files concerning Gran Quivira - i.e., Historical Statement and Water System report. Data must be accumulated for the report on lands for the Director's Office, and that report forwarded as soon as completed.

MONTEZUMA CASTLE, by Homer F. Hastings, Custodian.

Visitors this month, 223; travel year to date, 223.

General. The variety of Homo sapiens known as a visitor is dwindling and threatens to become extinct at this monument. We still get a few "locals" and a few who were passing by on business and detour to see the ruins, but with the cut in gasoline to three gallons per coupon, travel has suffered another drop. Several planes fly over almost daily, but have had no instructions on how to count this travel by air.

Weather. The breath of winter is upon us with the temperature dropping below forty almost every night. The first frost occurred the night of October 19. Maximum for the month was 94 degrees on October 1; minimum 29 degrees on October 21. The mean maximum was 84.36 degrees; mean minimum, 42.66 degrees. There was a total precipitation of .73 inch for the report month.

Administration. It has now been arranged to render relief to Tuzigoot National Monument one day each week. Although this will make us exceed the expected 40 percent reduction in our mileage, it is considered preferable to having the relief man from here stay over night at Cottonwood for two consecutive days relief at Tuzigoot and draw per diem for his expenses.

A supplementary certificate to cover gasoline for the Tuzigoot trips was requested and received.

Ranger Clark's household goods arrived October 14 - two months to the day after he arrived.

The Arizona Republic for October 16 carried a short account to the effect that a bill to provide for the addition of the Montezuma Well Property and 80 acres of Coconino National Forest to Montezuma Castle National Monument requires only the President's signature to become law.

Two copies of "Meeting the Mammals" by Victor H. Cahalane were received for sale with other Southwestern Monuments Association literature.

Maintenance, Improvements, and New Construction. Fuel oil heaters for both residences and the office were cleaned and put into operation.

Discolored wall areas around the soap dispensers were cleaned, repainted, and waterproofed with a coat of varnish.

We were without refrigeration in Residence No. 2 from September 11 to October 9 while the freezing unit was in a shop for a check-up. When the repairman was unable to get it to run, he recommended that part of the unit be sent back to the factory in Philadelphia for repair. We objected and brought it back to the monument where we again have it running and hope the cooler weather will make it more economical in operation.

Everything was set to bury the wire for the telephone extension project when word was received that more wire was being shipped that would be better suited to our needs. We hope to complete the project soon after the wire arrives.

Approximately one and one-fourth barrels of emulsified asphalt have been used in patching rough and eroded spots in our entrance road and parking area. Several truck loads of gravel for this purpose were screened twice to secure the pea-sized gravel required.

On each relief trip to Tuzigoot a load of salvaged timbers is brought back from the demolished reconstruction for use in the fireplaces.

Leaks and weak spots in the museum roof were repaired and a coating of tar applied to laps in the roofing paper.

The nine picnic tables on the picnic grounds were repainted.

The truck was greased and Prestone put in for winter's use.

Accessions. A copy of "Wildlife Portfolio of the Western National Parks" was received for the monument library.

Received from the Library of Congress a photostatic copy of what was listo

in "Southwestern National Monuments Bibliography" as the earliest reference to Montezuma Castle in 1848.

In answer to the perennial question, "Who discovered the ruins?" it was our habit to reply that our earliest dated record was made in 1848 by Ephraim G. Squier who was writing about the travels of Lieut. Emory. The photostatic copy was needed to support this statement but the reference is to "Casas Grandes" or "Casas Montezuma." The article is even accompanied by a sketch of the Casa Grande ruins.

Use of Monument Facilities by the Public. Tickets were sold on only 18 days of the report month. There were 67 cars; 35 Arizona cars. Total states represented, 22; foreign countries, England, Denmark, and Wales. Total visitors, 223; number of tickets sold, 83; revenue received, $23.27; number of the armed forces admitted free, 12; children admitted free, 11; tax but no ticket, 1.

Guide Service. Total contact hours, 54.25; Hastings, 25.75; Clark, 28.50. Ruins trips, 39 for 107 visitors; museum parties, 44 for 146 visitors. Information service for 11 visitors. There were 5 picnic parties totaling 28 people.

Park Service Visitors. Relief Ranger and Mrs. Ted Sowers.

Visitor Reaction to the Interpretive Program. No new reactions were noticed.

Projects for Ensuing Month. I will continue to instruct Ranger Clark in office matters, move extension telephone to Residence No. 2, gather and cut wood for fireplace, and maintain protection and visitor contact.

NAVAJO, by Bill Wilson, Custodian.

Visitors this month, 6; travel year to date, 6.

Visitors. Visitors this month 6 in 2 cars. All made the trip to Betatakin Point by way of Sandal Trail, and one went to Betatakin Ruins. They were all highly interested and are potential post war visitors. They all took pictures in kodachrome.

Official Visitors. Assistant Regional Director Richey spent a night and a day with us. Needless to say we were glad of the opportunity to discuss many things with him.

Weather. The high was 76 degrees on several days; the low was 24 degrees on the 20th. There was .73 of an inch precipitation, most of which fell early this week in the form of rain, sleet and snow accompanied by high winds. The fall coloring was at its best about the 9th. The aspen, birch, oak and dogwood in the canyons put on a show but the trees are nearly bare at this writing.

Roads. Fair following the rains. The main road is better than in many months since the Indian Service graded it.

Miscellaneous. Several welcome additions to the library have been received such as Dixon's "Wildlife Portfolio", Wissler's "Archaeologist at Work", and McGregor's "Burial of an Early American Magician."

Maintenance and New Construction. Lumber has been hauled for a small temporary hay and horse shelter and work has been started on it. The winter's wood is cut and stacked.

Continued Projects. Installation of the gas pump is still a continued project but hope to complete it this month. Will also complete the horseshelte Inspection trips to Keet Seel and Inscription House will be made before winter sets in and the usual maintenance and office work will be carried on.

ORGAN PIPE CACTUS, by William R. Supernaugh, Custodian.

Visitors this month, 5,383; travel year to date, 5,383.

Travel. Travel this month increased regardless of torn up roads, starting off the travel year with a nice figure. Now that the fishing season is open

and roads are being paved we should continue to show an increase. Travel is quite heavy to Mexico due to gas rationing and tires and is the place to spend a vacation as gasoline may be purchased there.

General. The month was spent on routine administrative duties and getting the office straightened up after moving it to Headquarters from Acting Custodian Wilson's home when he left for the Seabees. Filing and office work was brought up to date.

A trip was made to the Coolidge pool on October 11 for supplies and equipment, and one day was spent using their power equipment.

A Project report was drawn up and submitted for installation of flood gates on the boundary fence.

Roads. The Hill Construction Company arrived October 1, for the oiling of the monument highway. Work was begun October 4, and was going nicely when oiling operations were held up by delays in oil shipments. As this report goes in, about 1½ miles of oil mat has been laid and mixing is in progress on two more miles. Lack of railway cars seems to be the greatest trouble.

Work on the four mile approach road is progressing rapidly with expectations of a complete through highway by January 1.

The road to Rocky Point in Mexico has at last reached the complete length with oil all the way.

Wildlife. A deer was killed on the highway the night of October 6, being struck by a car. It was unreported until found the following morning so no action except disposal of the carcass could be taken.

A coyote with rabies entered the bunkhouse of the Construction Company camp during the night of October 6, and furnished plenty of excitment for the men there until it was finally killed. One man was bitten severly and is receiving rabies treatment.

Rabies in the coyotes may cause quite a problem here. There seems to be a great many infected animals in the area as several reports have come in regarding the actions of coyotes around the desert. Several cases of rabies in dogs have been found in both Ajo and Sonoyta and a number of people were given treatment after being bitten. Although the rabies season should be about over here now, I plan to keep a careful watch for suspicious acting coyotes and, if possible, send in some heads for examination.

Accidents. One serious automobile wreck occurred on the monument October 10, when two cars met in a head-on collision. Although no fatalities resulted the occupants suffered broken bones and severe cuts.

Projects for the Coming Months. The coming months will be spent on Headquarters construction work and administrative duties and hope to get the fencing repaired as the material for this has just arrived, taking a month to reach here from Bandelier.

SAGUARO, by John Peavy, Acting Custodian.

Visitors this month, 256; travel year to date, 256.

Visitors. We have had a total of 256 visitors this month, who arrived in 90 cars. Of these 45 were instate, 33 outstate, and two army vehicles. Three visitors arrived horseback. Men in uniform - 44.

Guide time: 17 hours, 35 minutes. J. Peavy, 15 hrs., 10 mins; M. Peavy, 2 hrs., 25 mins.

Manning Camp. Lloyd Van Doren, Arcenio Araiza, and I spent the 11th, 12th, and 13th in the Rincons and covered a greater portion of the forested area.

Manning Camp had had five visitors since September 1, and everything was found in good shape. The fire danger was moderate in this area at that time due to lack of rain since Sept. 25.

Range Management. The time on the mountain this month was partly spent in locating X9 stock and determining how far they would drift into Happy Valley.

It was determined that stock would not drift any lower than Spud Rock Ranger Station on that side.

On the 18th the annual range inspection ride on the X9 allotment was accomplished. Due to summer rains the south part of the range is in much better shape than last year.

Roads. Three days this month were spent in filling holes in the Loop Road caused by cloudburst of Sept. 25, the road is in fair shape at the present. All trails are in poor shape.

Telephone Line. One day was spent during the month trouble shooting the line between the Far AA and old Rincon Ranger Station.

Tucson Office. I spent parts of days and whole days in the Tucson Office on the 4th, 22nd, 19th, and 25th. I have arranged for a phone to be installed in this office.

Noted Changes in Visitors Reaction due to the War. Probably due to lack of gasoline and the cut in value of A,B, and C coupons, travel here up to the 23rd had reached a very low ebb.

I placed an advertisment in the Tucson paper which was run on the 22nd, 23rd and 24th. I stated that I wanted to sell two deer rifles and ammunition therefore.

Travel increased to a great extent for this three day period, despite the gasoline shortage. Many people stated that they had never known how to get out here before. Needless to say the guns were sold and many potential deer hunters were acquainted with the fact that Saguaro National Monument is a Federal Game Perserve.

Closing. The hay is stored for next spring and now I can start work on the telephone line to Hdgts. if materials can be obtained.

Deer season is in the offing and at present it looks like there will be a great number of hunters this year despite the lack of arms, ammunition, gasoline and rubber. Everybody hereabouts wants to shoot something, preferably a buck skin.

SUNSET CRATER, by Philip F. Van Cleave, in charge.

Visitors this month, 204; travel year to date, 204.

An hour and a half was spent in clean-up of the grounds around the parking area and the ice-caves. The sign to the ice-caves has been removed but not damaged and was taken to Wupatki for treatment of the base portion. Dry rot seems to have done considerable damage and replacement may prove necessary. Road are in good condition although they have been wet and a little muddy in spots most of the time for the past month.

TONTO, by E.C. Gipe, Custodian.

Visitors this month, 220; travel year to date, 220.

A total of 220 visitors came to this area in 65 cars. States represented. 15. Cars instate, 20; outstate, 45. Members of the Armed Forces, 25. Ruins trips, 44, with 155 people; museum groups, 52, with 179 people. Informational contacts, 15.

Personnel Time. Custodian Gipe, 69.6 hours.

Visitor Reaction. Visitors seem to come in about the same number. The second cut in gas hasn't made any difference yet, that I can notice, but the people express greater interest than ever before.

Weather. Continued hot until a week ago, then on the night of the eighteenth we had two very heavy thunder showers, with high wind, and hail at frequent intervals.

The rain lasted until morning. The tent strained out the hail, but the water poured through almost unhindered, and what with trying to push a dish under every stream, and yanking our only two pieces of overstuffed from spot to spot, we must have resembled a couple in a jitterbug contest.

General. A trip was made to Coolidge, October 4, to get the truck assigned to this monument, making the round trip in one day. Later another trip was made to Globe for materials.

An earthquake was felt here one morning, around the middle of the month; it was heavy enough to slop water, standing in a tub on the floor of the temporary cabin.

The rains have started new grass again, and filled all the water holes once more.

Wildlife. Coyotes are howling again and a few nights ago one came down close to the tents. Some of the winter birds have returned, and some of the numerous squirrels have gone away. The rats and mice still nest in the cars, and don't mind traveling a bit, as I took five mice to Globe with me on my last trip.

Maintenance. The storm of last week did less damage than I expected, but there was considerable work to be done afterward. Have not heard anything more about the grader for the entrance road, but hope it will be along. More wood removal was accomplished this month.

Projects for the Ensuing Month. The regular maintenance work, getting enough done on the temporary cabin, so that we can get into it, and I hope, moving in. Wood getting is again in order, as it has been quite cold since the storm of a week ago, but it is warming up again now.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 281; travel year to date, 281.

Weather. Pleasant fall weather has prevailed throughout the entire month with two slight frosts. Cottonwoods along the Santa Cruz River add a golden touch to the autumn landscape by their yellowing leaves.

Visitors. Visitor travel has slackened slightly because Nogales, Sonora, is out-of-bounds for all military personnel; hence travel has almost ceased. Two hundred eighty one visitors were conducted through the mission ruins and museum in 142 trips. The custodian took 70 trips and spent 29 hours and 5 minutes. The ranger took 72 trips and spent 26 hours and 50 minutes.

NPS Visitors. Luis and Aggie Gastellum were seen several times while visiting here on annual leave. Luis was on his way to his new station as chief clerk at the Grand Canyon. Ranger Sally Brewer and family were here on October 7.

Maintenance. Aside from the regular restroom-museum-mission maintenance, considerable time was spent working the grounds into shape. Wood cutting, raking and hauling coupled with general cleanup work took up most of the month. All windows in the museum building were washed. The pickup truck was washed and serviced. The garage was cleaned and hosed. Wood was hauled and cut into proper lengths for fireplace use. Windows in the custodian's residence have been tightened in readiness for wintry blasts. Doors have been reframed by adding strips to their sides and tops where needed. Door locks were oiled and repaired. One piece of oak threshold was installed and some weatherstrips added. The ranger's residence having steel windows and properly fitted doors does not need such maintenance.

Library Acquisitions. Two additions were made to the library this past month. Dixon's "Wildlife Portfolio of the Western National Parks" is an extremely valuable addition to the already important work done on wildlife by members of the National Park Service and the Fish and Wildlife Service. Through the courtesy of Archeologist Steen of Region Three, Frank Duoll's "Mission

Architecture as Exemplified in San Xavier del Bac" was added to the library. This was one of the first books to be published on the architecture of any of the Sonora Missions and is a needed addition.

Continuing Projects and Work for Ensuing Month. Weeds will be cut and hauled away to the old adobe pit. Burned out lights in some of the museum cases will be replaced.

TUZIGOOT, by Ted C. Sowers, Acting Custodian.

Visitors this month, 307; travel year to date, 307.

Travel. Travel this month was higher than for September with instate visitors totaling 175 and outstate visitors totaling 132. Of the 86 cars recorded here, 43 were instate and 43 outstate. There were 87 members of the Armed Forces who visited the monument. There were no NPS visitors.

Guide and Contact Service. Museum, 37 hours, 50 minutes; Field, 45 hours, 45 minutes.

Personnel Time. Acting Custodian Cotter, 1 hr, 50 mins; Relief Ranger Sowers, 75 hrs, 20 mins; Ranger Clark, 6 hrs, 25 mins; Custodian Hastings, 0. Custodian Hastings came on the 7th for relief duty and drew a blank that day. Ranger Clark relieved Tuzigoot on the 2nd, 15th and 20th.

Projects. Checked inventory, both physical and material, which found everything accounted for. Also checked all SWNMA publications and found them in good order.

The 550 feet of new water line was laid and completed on September 30, with the help of Acting Custodian Cotter. The Clarkdale Water Company then welded the two ends of the new pipe. Have walked the 2½ miles of water line on the average of four times a week trying to locate the break which has made the meter dizzy trying to record the amount. Have had no luck in locating the break and neither Custodian Hastings nor Ranger Clark have had any luck in the same task. The Water Company has been notified of the break. Ranger Clark and I covered the new section of pipe on October 15.

Cleaned and straightened up garage and storage room in rear where more equipment was stored. Cleaned and rearranged the two storage rooms off the museum, also checked all paints and materials on hand.

Cleaned and painted furnace in museum and all is in readiness for winter;

Much time has been spent in clearing out the weeds in the ruins. All six units have been treated and also the covered top room. The paths have been cleaned and all nearby weeds destroyed.

Received three boxes of Tuzigoot artifacts from Custodian Caywood and also two publications on the potsherds found here.

Eight boundary signs were posted along the fence surrounding the ruins. Repainted and lettered all "trail" and "burial" signs.

Found battery in pickup had two dead cells and was glad this was hilly country so that car could start. Failed several times and then had to be pulled. Expecting new battery any day now.

Projects for Ensuing Month. Locate if possible, the leak in the water line and place a clamp on it. In addition, I plan to do further work on trail and especially steps which are in bad shape, clean out weeds in parking area and around base of ruins, complete the filing of all stabilization photographs, check all the walls in the ruins for any serious erosion, obtain bituuuls for paths throughout ruins, especially the path to first burial west of III-9, and rework flashings and cracks in roof with Zone roofcoat. Will also arrange new material in museum cases.

WALNUT CANYON, by Paul L. Beaubien, Custodian.

Visitors this month, 493; travel year to date, 493.

General. There were a few storms this month, one with snow on the 17th, but in general we've had fine weather.

Visitors. Of the 493 visitors, 50 were not contacted and it is estimated that 295 made the ruins trip unattended. Forty six visitors were conducted around the ruins trail. Hours spent in interpretive contacts are as follows: Beaubien, 69.

Activities. Now that Walnut Canyon is a one-man monument again, there is little to report beyond the routine jobs of contacting, administration, and maintenance of facilities. Custodian Van Cleave brought a load of coal from the mine beyond Cow Spring.

Improvement of Approaches. The Federal project of paving, with cement, Highway 66 from Flagstaff to our west entrance road was completed this month. The County road by the monument was graded for the first time since the snow plows went along last winter.

Changing Trends in Public Use Etc. None were observed.

Projects for Ensuing Month. Mostly the routine jobs.

WHITE SANDS, by Paul M. Steel, Acting Custodian.

Visitors this month, 2,406; travel year to date, 2,406.

General. This month shows a decrease of 20.98 percent under the corresponding period of last year; however, a cold snap has practically cancelled night parties which (we like to think) accounts for part of the drop. Of the 2,406 visitors, 1,390 were soldiers or soldier parties, an increase of 44.79 percent over last year. No special trips or events have taken place during the month.

We are still having very pleasant weather with a high of 89 degrees on September 30 and a low of 21 degrees on October 20; 0.56 inches of rain has not helped to any great extent but did let Joe get the roads in fair shape again.

Relief Ranger Reed reported here on September 23 to fill in during Custodian Faris' illness. After he let the word slip that he was a painter, we immediately took advantage of his presence to work over the administration building to relettor the road signs, and to get signs ready for installation in the sands proper. Harry has taken it all with a grin and is doing a swell job.

As mentioned above, cold nights have resulted in fewer picnics. Various Army units are now having Sunday picnics and the Post Engineers held a barbecue recently for 150 employees. Major Bruce, of the Post Engineers, has been very cooperative in many ways with this area, his most recent gesture being the loan of a compressor and paint guns for use in our painting program.

Maintenance problems continue to stack up, but with all pitching in we hope to whittle them down rather rapidly during the coming month. The painting should be completed, and the newly decorated signs installed, adding a great deal to the monument.

Ranger Reed has shown slides to U.S.O. groups twice during the month, and Ranger Steel has given the Southwestern Monument rods a couple of workouts. Plans are being made to permit the U.S.O. use of the Museum Lobby once or twice a month during the winter season.

Custodian Faris returned to duty October 1 on a part time basis, but had another attack October 18 and will probably be confined to bed several more days. Johnwill is really the spark plug of the outfit and is missed a great deal.

Roy has had the pleasure of a two weeks visit with his daughter, Miss Helene Knabenshue from Los Angeles. Joe's boys from the Service have been home during the month.

No complaints and little comment on the war have been heard except a few words on the reduction value of gas coupons. The reduction will no doubt continue to hurt travel, but we'll keep our chins up.

WUPATKI, by Philip F. Van Cleave, Custodian.

Visitors this month, 32; travel year to date, 32.

Activities. Nearly the entire first week of the month was spent in work at the spring. The tunnel had to be cleaned out for its entire length from within; which entailed crawling through the darkness in water and slime with little room to use arms or legs for propulsion.

Considerable time and effort has been expended in locating additional section and quarter corners and the incidental location of several un-marked sites; one of the sites seems well worth investigating, as it appears to be a nicely preserved pit-structure site.

Four days were spent in the field and at Black Falls, asking discrete questions regarding the monument use for sheep grazing. Report will be soon forthcoming.

Two small buildings and portions of two other structures were removed at the Heiser Side Camp site by Custodian Wilson of Navajo, and myself. One trip to Navajo was made on the 20th of the month; return on the 21st by way of the coal mine for a load of coal for Walnut Canyon. A second trip is anticipated as soon as repairs can be made on a tire for the dump truck. The first trip to Navajo was to take the remainder of the lumber for Bill's horse shelter; the second will combine carrying hay to Navajo and coal to Walnut. After return, I hope to be able to get to work on a little road stabilization with the dump truck.

Weather. We have been having Navajo "half-winter" here for several weeks; in other words: its winter on the mountains in sight but not down here. As yet we've had no freezing spells, but can expect them anytime now. One strong windstorm in the middle of the month caused the antenna mast to finally give up the ghost and that must be fixed in the near future.

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Note to the Field.

We regret the delay in submitting the October Southwestern National Monuments Narrative report to the field. This has been caused by the furlough of valuable employees and the absence of others on sick leave causing a shortage of stenographic assistance.

It was only through the fine assistance of Cecelia (Mrs. Ted. Sowers) on cutting these stencils in the field, that we were able to issue the report at this time. We are very grateful for this assistance. Thanks a lot Cecelia.

Because of the delay in submitting this report to the field, the personnel notes have been deleted from this issue.

C.A.R.

SOUTHWESTERN NATIONAL MONUMENTS TRAVEL STATISTICS

OCTOBER, 1943

Station	1943	1944 Travel Yr. to date	1943	1943 Travel Yr. to date	Increase or Decrease	% Incr. or Decrease	1944 Fiscal Yr. to date	1943 Fiscal Yr. to date	Incr. or Decr.	Incr. or Decr.
Arches	20*	20*	103	103	-83*	-80.5*	286	475	-189	-39.7*
Capulin Mountain	1000	1000	1000	1000	0	0.0	8500	13300	-4800	-36.0
Chiricahua	214	214	290	290	-76	-26.0	1439	3534	-2095	-59.0
Natural Bridges	2	2	47	47	-45	-95.7	88	221**	-133	-60.3
Organ Pipe Cactus	5383	5383	2601	2601	+2782	+106.9	20214	8691	+11523	+132.6
Rainbow Bridge	0*	0*	0*	0*	0	0.0	10	20	10	-50.0
Saguaro	256	256	305	305	-49	-16.0	1053	1101	--48	-4.3
Sunset Crater	204	204	600	600	-396	-66.0	1618	4119	-2501	-60.7
White Sands	2406	2406	3045	3045	-639	-20.9	17230	21702	-4472	-20.6
TOTAL BIOL.-GEOL.	9485	9485	7991	7991	+1494	+18.7	50438	53163	-2725	-5.1
Aztec Ruins	440	440	412	412	+28	+6.8	2772	3866	-1094	-28.3
Bandelier	426	426	846	846	-420	-49.6	2357	2880	-523	-18.1
Canyon de Chelly	20	20	63	63	-43	-68.2	152	637	-485	-76.1
Casa Grande	781	781	679	679	+102	+15.0	2116	2552	-436	-17.0
Chaco Canyon	203	203	31	31	+172	+554.0	871	297	+574	+193.0
El Morro	21	21	22	22	-1	-4.5	158	266	-108	-40.6
Gila Cliff Dwellings	0*	0*	0	0	0	0.0	28	115	-87	-75.6
Gran Quivira	20	20	70	70	-50	-71.4	173	472	-299	-63.3
Hovenweep	0	0	18	18	-18	-100.0	18	92**	--74	-80.5
Montezuma Castle	223	223	281	281	-58	-20.6	1251	1792	--541	-30.2
Navajo	6	6	14	14	-8	-57.1	31	51	-20	-39.0
Tonto	220	220	326	326	-106	-32.5	739	978	-239	-24.4
Tumacacori	281	281	411	411	-130	-31.6	1236	1723	-487	-28.2
Tuzigoot	307	307	502	502	-195	-38.2	1230	2100	-870	-41.42
Walnut Canyon	493	493	670	670	-177	-26.0	2450	4698	-2248	-48.0
Wupatki	32	32	81	81	-49	-60.5	227	494	-267	-55.9
Yucca House	4	4	10	10	-6	-60.0	21	55	--34	-61.8
TOTAL HIST.-ARCH	3477	3477	4436	4436	-959	-21.6	15830	23068	-7238	-31.3
GRAND TOTAL	12962	12962	12471	12471	+535	+4.3	66268	76231	-9963	-13.0

*Estimated

**Corrected Total

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

November, 1943.

MEMORANDUM for the Custodians,
Southwestern National Monuments.

November narrative reports of Southwestern National Monuments areas a re reproduced below for the information of all field officers. One copy is furnished each unit. If should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Assistant Regional Director.

HEADQUARTERS INTERPRETIVE STAFF, by Natt N. Dodge, Associate Naturalist.

Staff Activities - Personnel Naturalist Dodge returned to the office from annual leave on November 9. He spent the remainder of the month in the office principally catching up on accumulated correspondence. Prior to Dodge's return, Custodian Toulouse handled necessary routine interpretive administration. Assistant Naturalist Steen's annual leave terminated on November 6, and he went on military furlough as of that date.

Public Relations - Publicity The photograph filing system in use by Southwestern National Monuments interpretors was the subject of a "how-to-do-it" article written by Assistant Naturalist Steen and published in the September issue of "Clearing House For Southwestern Museums".

Extension Services. Two illustrated talks were given; one consisting of two programs on the evening of November 24 on the subject of National Monument of New Mexico for bed patients in wards at the Bruns General Military Hospital in Santa Fe. Thirty five patients attended. Motion pictures of the National Monuments of New Mexico and of plant and animal life of the Sonoran Desert were shown to 85 pupils and teachers of the Allison James School in Santa Fe on the evening of November 27. Acting Regional Director Scoyen presented a motion picture on National Parks Wildlife to 35 members of the Santa Fe Kiwanis Club on November 30.

Projection slides and motion picture reels loaned to Hot Springs Nat'l Park are finding steady use.

Motion pictures on Desert Indians, and slides on Desert Reptiles loaned to the Boulder, Colorado, public schools were shown to classes studying those subjects. A set of projection slides on the National Monuments of New Mexico was loaned to Mrs. Alton Lindsey of Albuquerque, New Mexico for showing to Women's Club groups in December.

New or unusual activities. "The Capture, Preparation, and Preservation of Reptile Specimens", a manuscript prepared by Earl Jackson of the Region Three Office staff, was received. Following review, it will be mimeographed for distribution as a guide for field men making reptile study collections, an will eventually become a part of the Southwestern National Monuments Ranger Manual.

In the capacity of "Assistant Editor", Naturalist Dodge helped in the preparation and distribution of the "Region Three Newsletter", a mimeographed sheet for personnel of the Region Three Office now in the armed forces.

Loans, gifts, and accessions. Two slide projectors and one motion picture projector were received on loan from Kings Canyon National Park. Two of the projectors received use during the month. A 16 mm. motion picture editor-splicer-rewind was obtained. Two boxes of artifacts from the Mercer University Collection were received from Ocmulgee National Monument and placed in storage subject to study and distribution to Service areas nearest the original source of the material. Thirteen boxes of surplus photographic printing paper in 5x7 and 4x6 sizes were received from the Director's office. A total of 216 Kodachrome projection slides were added to the slide library.

Progress of exhibit plans and projects. In line with returning to the vicinity of their source such exhibit and study collection material as becomes available, a number of artifacts from the Agnew Collection obtained from Sequoia National Park were sent to Tumacacori, Casa Grande, and Tonto National Monuments. Other items which should be in Yosemite National Park will be sent there as soon as they can be packed and shipped.

Headquarters loan library. On November 22, Mrs. F. M. Dodge (mother of Naturalist Dodge) resumed her activities in the loan library. Mrs. Dodge spent the greater part of five months in the library last winter. Her efforts this month were devoted toward filing library cards covering books accessioned and catalogued last winter. Mrs. Dodge, a retired school teacher, spends her winters in Santa Fe and has become much interested in the Headquarters Loan Library.

Approximately 200 copies of back numbers of photographic magazines were donated to the library by John D. Kell of the Branch of Plans and Design. In addition, the library received 84 publications consisting of two books, 21 pamphlets, 47 periodicals, and 14 reports.

Southwestern Monuments Association. One consignment account was liquidated and a number of publications were purchased to round out the for-sale stock on hand at various monuments. All areas are now adequately stocked with items which experience has shown to be in demand by visitors.

Information and materials previously requested from Arizona Highways Magazine were received, and it is anticipated that the project of publishing the proposed book "Arizona's National Monuments" may go forward as soon as financing of the printing of color plates has been arranged.

Because of the serious illness of her husband, Mrs. Elizabeth Jackson resigned on November 27 from her position as treasurer-bookkeeper of the Association. Until someone may be appointed to replace her, J.A. Vanden Heuvel has kindly offered to handle the Association's bookkeeping affairs.

Status of archaeological projects. Although unable to actively participate, the Naturalist has read with interest reports of the efforts of personnel at Aztec Ruins National Monument to prevent seepage waters entering prehistoric structures. A report by Willard Bradley, Soil and Moisture Conservation Division, of a large crack in the ledge supporting White House Ruin in Canyon de Chelly National Monument is the basis of an investigation to be made in December.

Photography - visual aids. No photographs were taken during November. Custodian Toulouse of Gran Quivira National Monument mounted 195 Kodachrome frames and these were added to the Headquarters slide library. The Superintendent of Carlsbad Caverns National Park, Relief Ranger Reed, Custodian

Hastings, and others submitted Kodachrome frames and slides totaling 216. Eighty slides were sent from the Headquarters library to the Acting Custodian of White Sands National Monument for use in presenting illustrated programs to groups of men of the armed forces. The Headquarters slide projector was loaned to Bandelier National Monument in response to a request of long standing.

Reports and memoranda. In response to Dr. Russell's request of October 20, a lengthy report of interpretive activities in the Southwestern National Monuments during 1943 was prepared and submitted.

Reportworthy visitors. Chief Forester John Coffman, Custodian C.E. Thomas, Ranger J.W. Hendron, and Curator Stanley Stubbs of the Laboratory of Anthropology had business in the Naturalist's office.

Fish and Wildlife management. Copies of the recently published edition of the Arizona State Game Laws and Refuge Map were distributed to all Service areas in Arizona.

Reaction of visitors to the interpretive program as influenced by war time conditions. National Monument Custodians continued to report that visitor interest is much higher than that displayed by pre-war tourists. White Sands: visitors stay longer in the museum and among the sand dunes, and requested thorough and detailed explanations of the natural history features. Montezuma Castle: many favorable comments were made, during November, by visitors relative to the museum and its exhibits. Aztec Ruins: visitors are unhurried and very appreciative of interpretive service. Canyon de Chelly: visitors express a desire to stay longer and promise to return after the war. Tumacacori: visitors interest in interpretation remains high. Approximately 80 percent of the visitors to the monument during November were women.

Technical aid to administrators. Film and a camera were loaned to Chief Forester Coffman, the manuscript for a tw-fold leaflet on Big Bend National Park was reviewed, and material was gathered for a talk by Assistant Regional Director Richey on the travels of Cabaza de Vaca.

Miscellaneous - overhead - routine. Forty two letters were written, but considerable unanswered correspondence is being carried over into December. Some progress was made in repasting prints in the Headquarters photo file through the assistance of Mrs. Mabel Usrey. "Personnel Notes" from the monthly report were sent to Southwestern National Monuments personnel now in the armed forces.

Regional naturalist activities. A laboratory microscope was loaned to Carlsbad Caverns National Park, and Headquarters study skin and herbarium cases were weighed, subject to loan to Carlsbad Caverns. Lack of time made it necessary to postpone attention to several other requests from this area. The report of Interpretive Studies at Carlsbad Caverns National Park, made in August, was signed by all members of the committee and submitted to the Regional Director.

Projects planned for next month. It is hoped that it will be possible to catch up with all accumulated correspondence, to follow through on coordinating lists of needed interpretive structures and equipment requested from the field, and to take care of requests for books and interpretive materials submitted by the Superintendents of Carlsbad Caverns National Park and Boulder Dam National Recreational Area. The winter library project will continue, and it is planned to make an investigation of reported rock fractures in the ledge supporting White House Ruin in Canyon de Chelly.

Checking of travel reports from the field and other routine office maintenance will be kept current. If possible, the Southwestern Monuments Association's book publishing project will be forwarded.

Personnel section.

Appointments - none.

Transfers. Clair V. Cooke, Ranger, to Casa Grande National Monument, by transfer from Carlsbad Caverns National Park, effective November 12, 1945.

Terminations. None.

Military Furlough. Charlie A. Steen, Naturalist, Headquarters, effective November 6, 1943 at 10:30 A.M.

ARCHES. Custodian McKinney's report not received.

AZTEC RUINS, by Custodian Thomas C. Miller,

Visitors this month - 363; travel year to date - 803.

General. The custodian was on annual leave November 17 to 22 inclusive. Travel, weather, and roads have been fair the entire month. Our visitors seemed unhurried and they were of the appreciative type. No inspection of Mesaverde, Natural Bridges, or Yucca House, was made this month, due to the pressure of other duties here at Aztec. Much has been accomplished on drainage and other projects during the month.

Weather. Maximum temperature 77 on October 26. Minimum temperature 9 above on November 8. We had 22 clear days, five partly cloudy, and three cloudy days during the month. Precipitation was .25 inch recorded for the month.

Use of Monument facilities for the month. Three hundred sixty three people entered the Monument in 110 automobiles, coming from the following states; Arizona 1, California 3, Colorado 61, Florida 1, Illinois 4, Kansas 10, Massachusetts 4, Michigan 3, Minnesota 2, Missouri 1, Nevada 6, Nebraska 2, North Carolina 2, New Jersey 1, New Mexico 29, Ohio 3, Oregon 4, Pennsylvania 3, Texas 15, Utah 2, Wyoming 4, Wisconsin 1. Of the above number 220 persons were guided through the Ruins and museum in 51 groups. 156 Permits were sold, producing a revenue of $14.16 which includes all Federal Revenue Tax. 124 people used monument facilities for which there were no charge. Five drivers were issued and 11 children of taxable age, and 64 children under taxable age. 14 members of the Armed Forces were admitted in the above total. Total guide time in hours 74 and 45 minutes. Travel for November 1942-439 persons. This shows a decrease of 76 persons.

Drainage. The most part of the month the Navajo laborers, the custodian and the ranger have worked on this project. To date we have completed four wells and are now engaged in cribbing the 5th well at the water level, 15 feet below the surface. The well will be excavated and cribbed about five feet lower. We now have three wells on the north side of, and above the Ruins, also two wells in the Ruins, one being in Kiva I and the other in Kiva J. We have almost eliminated the water in Kiva I, but in Kiva J we pump three times daily to keep the water from flooding the floor. We have been greatly handicapped because of the much needed insulated wire which was shipped from Bandelier on October 20 but has not arrived at this time. We are using hand pumps

on the heavy flow of water. We hope by next report time to be able to state that we have successfully cut the flow of water off from the underground kivas. This is a very important phase of our ptorective program here at this area. We must have some money for permanent drainage above the Ruins at the earliest practicable date.

National Park Service visitors. Custodians Baxter and McNeil from El Morro and Chaco Canyon National Monuments, and Steven Jordan, . & . Foreman from Chaco Canyon National Monument.

BANDELIER, by Custodian Chester A. Thomas

Visitors this month - 163; travel year to date - 589

Weather has been generally warm and sunny in the daytime, but cold at night. Only at the close of the month did we receive .70 inch of rainfall to break a month of cloudless skies. The approach roads as usual have been rough and dusty. Construction on the Stoki Section has resulted in our approach road being entirely closed over the week ends. As most of our travel nowdays comes to on Sundays, closing the roads kept most of our travel away. What travel we did have came from Los Alamos Camp.

Another hunting season has come and gone. Careful patrol of boundaries prevented any known encroachments on the monument, Few deer were reported taken in the forest outside the monument. This should point to an increase of deer and turkeys in the monument next year. Turkeys were reported unusually numerous this year, but few were killed during the season. The shortage of gasoline and tires together with the shortage of ammunition and the fact that most potential hunters are either in the armed forces or in war work seems to account for the slight interest shown in hunting this year.

Several days were spent posting signs on the south and west boundaries prior to hunting season. Three head of trespass horses and a bull were rounded up and removed from Capulin Canyon. Two days were spent inspecting insect damage to the forest in the blowdown areas at the Upper Crossing, South Mesa and the vicinity of the Dome. The custodian met three times with the contractor, State Highway officials, and the Army to work out special details concerning the construction of the Army Access Road to Los Alamos. Regional Engineer Lassiter and Regional Landscape Architect Cornell inspected the road on November 2 and November 22. We won most of our battles with the Army and took a beating on only one important point.

An alarming infestation of bark bettles is making serious attacks on the ponderosa and pinyon pine in the blowdown areas. This outbreak was expected to follow the serious damage created by the storm of April 30, 1943 but its development leaves us somewhat appalled. Thousands of trees were blown down and damaged by the wind, but managed to live for a season or two. In their weakened condition they could not withstand the attacks of the "killers". Very strong broods of beetles were built up in the dying trees and now the insects are present in such strength that they are able to overwhelm even strong thrifty trees. Many areas were noted where as many as 50 standing trees are dead in a very small area. Serious loss is being sustained in the pinyon stands.

This pine was little damaged by the wind, but the bark beetle infestation spreading from the ponderosa is resulting in serious loss of these trees outside the blowdown area.

Ips and Southwestern pine beetle (Dendroctones berberi) seem to be the most serious killers with several other species of Ips and Dendroctones playing a secondary role. Some 8,000 to 9,000 acres of our forest land is not a very pretty sight to see at this time.

Chief Forester Coffman and Acting Regional Forester Ratcliff inspected the insect outbreak November 20 and 21. It seems that control measures would be of doubtful effectiveness. Nature no doubt, knows how to handle such problems and will, in her own time and way.

The Army Access Road through the Otowi Section is scheduled for completion the 26th of the month. The custodian will meet tomorrow with representatives of the National Park Service, State Highway department, the Army Engineers, the Bureau of Public Roads and the Contractor for the final inspection. Work is scheduled to start this week on the section to Espanola. Hopes are still maintained by the Army that WPB will later relent and give them the material for the bridge across the Rio Grande and the short cut to Pojoaque. We are still hoping also.

Dr. Emmert, Adams State Teachers College at Alamosa, Colorado spent a day in the monument taking notes on our museum, study collections and recently excavated material for possible use in a course on Rio Grande Prehistory to be offered at the College. Dr. Emmert expressed pleasure that so much source material could be obtained from our museum and collections.

Patrol of the south side of the monument revealed that the Bureau of Reclamation is carrying on extensive testing at the proposed White Rock Canyon Dam Site about a half mile south of the monument boundary on the Rio Grande. They have moved in a power shovel and a bull dozer; are stripping alluvial material from the country rock to enable them to more closely examine the foundation structure. The dam, if built at the proposed site, would back water up the White Rock Canyon many miles and would flood large portions of Capulin, Alamo and Frijoles Canyons within the monument.

Ensign S.J. Keefe and wife, former seasonal ranger at Bandelier, spent two days at Bandelier during the month. Joe has completed a year and a half of training and is now being assigned to the Pacific Fleet as communications officer. Joe had only a week's furlough before shipping to sea but stated that the one place he wanted to see before shoving off was Bandelier.

In December we plan to make extensive studies of the insect infestation on the monument. During bad weather we will work some more on campground table tops and commence painting and calsomining buildings. If weather permits some pack trips will be made to the back country.

CANYON DE CHELLY, by M.L. Guillet, Custodian

Visitors this month, 21 - travel year to date, 41.

Weather. The weather has been on a par with that of other years except that we have had no snow. We did however have .56 inch of rainfall which held up the Soil and Moisture job to some extent by making canyon travel nil for several days and damaging some of the new plantings. It has really been colder than the temperatures indicate as the stiff winds make the cold more penetrating. The lowest temperature registered

was 14 degrees on the eighth, with the minimum falling below freezing on all but five days. The highest was on October 29, when the maximum reached 78 degrees. Due to the scarcity of wood in the canyon, the cold weather has caused all of the Navajos but a few hardy souls to move up on the rim. The stream in Del Muerto remains completely frozen most of the day and as travel by horse is difficult, the few who remain will soon move out.

Administration. The soil and moisture work which was started last month was brought to a close on the 14th with the completion of the project. Foreman Jordan and his crew of Navajos accomplished a great deal in the time they worked despite several setbacks due to bad weather. The work was completed under the supervision of the custodian as Foreman Jordan left November 14 for Chaco Canyon. The office work connected with this project was done by the custodian as well as was Navajo interpretation was necessary and regular inspections of the work.

A trip to Gallup was made in U.S.I.-13041 for bottle gas and gasoline to use until tankwagon delivery could be made. Trouble was experienced by the fuel pump going on the blink, and a new one was installed before making the return trip.

Arrangements have been made with the Indian Service to haul the culverts from Chaco Canyon as soon as they can conveniently do so.

Maintenance. In addition to the routine chores and small repair jobs, the following work was done. A "pressure gun" was made and the sewer line under the floor of the house was opened and completely cleaned, but not however, until much hard digging had been done with little success other than to show me the futility of my labors. The large sign at headquarters was cleaned and waxed and polished. The pumphouse was thoroughly cleaned and scrubbed, the door and windows were painted slate grey, and the old grease rack at the rear was taken out and the lumber salvaged. Two days were spent filling holes and knocking down high centers in the road. More work was done on the drainage system around headquarters. Two loads of wood have been hauled and chopped. Storm sashes were all installed, and a general cleanup was made around the headquarters area. Antifreeze was installed in the automotive equipment and they were washed and greased.

Visitors. Although the visitors were few, there was still an increase of one visitor over last month. Those who came during the soil and moisture job were fortunate in being able to take the trip into the canyons as they could ride in the pickup to Antelope and White houses with the custodian while the work was in progress. We had 21 visitors representing the states of Utah, Illinois, Colorado, Arizona, and one foreign country, Chile. All of the visitors were favorably impressed and expressed regret at being unable to spend more time.

Ranger service. All the visitors were attended and conducted. There were six groups totalling 21 visitors. With these parties the custodian spent a total of 24 hours, or an average of four hours with each group.

War reaction. The only reaction noticed was in the time that the visitors allowed themselves. It seemed that all wanted to stay longer but had to be at such and such a place at a certain time. All say they will return "after the War" when tires and gasoline are easier to get.

The Navajos who have been away on agricultural work are drifting back for the winter. The bulk of their savings from summer wages will soon be in the hands of the best gamblers.

Projects for the ensuing month. Trail and road work, change powerline setup at pumphouse, begin work on rock curbing in front of administration buildings, take care of all routine duties, and on days when the weather discourages outside work I'll spend time working in the storage hogan or on my files.

CAPULIN, by Homer J. Farr, Custodian

Visitors this month 300 - travel year to date 1,300.

Visitors still consisted mostly of soldiers or their families.

Weather has been very warm and dry throughout the month until the 25th, when snow began to fall. We now have about three to four inches on the ground and it is snowing slightly at this writing.

Roads and trails. Roads in the monument have been kept in splendid condition during the month but the trails have been neglected. The road has been rather hard to maintain as it always is during a dry spell of weather.

Flora and fauna. Many deer found a haven of security in the monument during big game season, some 25 being seen entering the monument the first evening of the opening of the deer hunting season. Hardly fair to the hunters but mighty fine for the deer!

CASA GRANDE, by A.T. Bickwell, Custodian.

Visitors this month 640; travel year to date, 1421.

Visitors: This travel year, which started with an increase over last year, is in the red again. We weren't surprised, because November, 1942 was the month before mileage rationing in the west - and the travel that month (1308) was a record for late pre-war years. This month we had 640 visitors, bringing our travel year figures to 1421 to date.

Seventy-three members of the Armed Forces are included in the travel figures for the month, coming from 21 different stations.

Use of monument facilities by the public. 415 visitors were guided through the Casa Grande on 96 trips; 312 were guided through the museum on 81 trips. Total guiding time was 102 hours and 45 minutes - illustrating again that at areas with no set schedule for trips it is impossible to figure your guiding time in relation to your number of visitors (last month 86 more visitors were guided in 21 fewer trips). Two hundred-eighty-two tickets were sold.

Visitors entering the monument without making the ruin trip totaled 225.

Weather. No precipitation; one cloudy and one part-cloudy day during the period. Maximum temperature, 96 on October 27; minimum 32 on November 15.

General. The Coolidge Air Base, an auxiliary of Williams Field, will be activated about the first of December. We understand that there will be about a thousand men stationed at the field. Several of the officers have visited the monument - most of them to inquire about housing! We do anticipate an increase in military visitors to the ruin during next month.

Ross Maxwell spent parts of November 1 and 2 with us, bringing down a pickup from Arches for overhaul and leaving for Saguaro in I-13816. On the 4th Ross was back for a short time with Lyle Bennett.

On October 25 Engineer Moody of the San Carlos Project called with regard to the tentative proposal of a county road along our west boundary. As you know from previous correspondence, it seems unlikely that this road will reach beyond the discussion stage for the duration.

Quarters CG-6-3 were rented during the report period. Lyon E. Gerrald, Indian Service employee made a deposit on the quarters on November 2, and, with Mrs. Gerrald and their two children, moved in on the 5th.

The problem of fitting expenditures to appropriation continues to occupy the custodian when there are no more emergent matters. The deciphering of the allotment ledgers to understand just how these reversed figures are computed is no small achievement.

Personnel. Ranger Clair V. Cooke entered on duty here November 10. Cooke transfers to Casa Grande from Carlsbad Caverns National Park, where had been stationed for the past five years. His government service goes back to 1918 when he entered the Forest Service as a Ranger; except for a "short interval in the Army" he was with the Forest Service until 1930. He arrived in the Park Service via the Indian Service (Fire Dispatcher) and CCC (Foreman and Superintendent). His experience in forestry will be valuable on the Saguaro end of his appointment and he's proven his interest in archaeology by having a Folsom point in his collection!

On November 4 confirmation of a telegram (the telegram itself has not yet been delivered) arrived, authorizing Mechanic Stenchecker to proceed to Carlsbad Caverns in the semi-trailer and haul Mr. Cooke's furniture to his new station. Mr. and Mrs. Cooke and Mr. Stenchecker arrived the evening of the 9th; the Cooke daughter will remain in Carlsbad until her graduation from high school on Christmas Eve. The Cookes are settled in quarters CG-1-5.

Maintenance. On November 3 stoves were set up in the monument quarters, and arrangements were made with the Shell Oil Company for fuel oil. Parts of two days were spent working on the washing machine. Patching of the road was begun during the month; the custodian and Ranger Cook spent 8 days on the entrance road and have the job about 85% complete. The bituminous coating on the floor of the Casa Grande, especially around the entrance steps, was also patched. The sewer pump was greased and routine maintenance work done.

Interpretation and research. An important step in the museum catalogue was taken on October 30 when Dr. E.W. Haury, head of the Department of Anthropology at the University of Arizona, spent the day checking identification of all pottery in our study collection. The pottery has since been rearranged according to type, so that the interested visitor who spends a little time in the study room can easily trace differences in design and shape from the earlier to the late periods in both the red on buff and the polychrome wares. Cataloguing can now progress, as time allows, and identifications be listed "without fear of successful contradiction".

Dr. Haury's lecture "Arizona Before Coronado" at the Heard Museum in Phoenix, November 19, gave us an opportunity to hear how one of the best authorities on Southwestern archaeology generalized the mass of data available and presented it to an untrained audience; Ranger Brewer attended the lecture and reported on it to the "staff" on Sunday morning. These

discussions, before visitors begin arriving on Sundays, have brought out some interesting questions and prompted attempts, sometimes successful, to answer them. As everyone who has ever guided knows there are new questions under the sun; unless a ranger is prepared to answer questions with the most accurate summary of information available he has failed in one of his basic jobs. Not being super men - or women - a good deal of reasarch is necessary before we can approximate that ideal. At this area the "Fact File" has proven a valuable way of providing summaries of data where they can be consulted without any waste of time. Such a file is never static; new reports must be reviewed and often old reports re-evaluated in the light of new evidence. Some time each month is spent this way; results show that it saves time in everyday interpretation of the area, in breaking in a new man, and in looking up information we need for reports, etc.

Nature. There are no Pallid Horned Owls in Casa Grande this year. We have heard that there are several on a ranch about two miles north of the monument. (P.S. One owl returned November 28, five months to the day after they left. - S.B.).

Acquisitions. The pamphlet "Trusteeship of the National Park Service"; the bound "National Park Service Popular Study Series"; the beautifully illustrated "Wildlife Portfolio".

CHACO CANYON, by Irving McNeil, Jr., Custodian

Visitors this month - 424; travel year to date - 627.

Chaco Canyon had a total of 424 visitors who came in 132 cars from the states of Arizona and New Mexico. Ten of the people visited the ruins, and formed four parties with whom the custodian spent exactly five hours. All parties were on other business and stopped by enroute. Most of them plan to return after the war, when they expect more leisure time.

Several National Park Service visitors were in. Assistant Regional Engineer Bradley was in on October 27 and stayed until the 28th. Regional Ecologist Ratcliff was in on November 9 and stayed until the 12th. Bradley was working with the soil and moisture project and Ratcliff was making a range survey.

The weather has been very agreeable for the entire month. The coolest was five degrees above on November 7 and the warmest was 76 degrees on October 26. There was a total of .43 of an inch of rain which fell on three occasions.

A great deal has been accomplished at Chaco this month, but the whole job is made of many small parts. Two man days were spent in a effort to get the water pump and motor installed. Then, with the press of other duties, the project was temporarily abandoned. It is hoped that more time and more success will be had this next month.

The entire roof of the hay barn was retarred in preparation for the hay to be hauled in for the monument horse. Incidentally, the hay was hauled in this month too.

Mentioning hauling, two trips were made to Crownpoint for coal. Never yet has the mine operator or the custodian managed to get two tons on the truck, but the load has come within several pounds of two tons several times.

On October 28 a load of flooring was taken to Gallup for Custodian Baxter of El Morro National Monument, and the next day a load of coal was

hauled to him (still not two tons). The road was a little muddy. Spent the night with the people with whom radio contact is had almost every day. Went by Gallup, bought oil and other supplies, and returned to Chaco next day.

In preparation for winter (besides the coal) a stop-and-waste faucet was installed in the horse lot, and the final faucet boxed. Prestone was put in the tractor, generator motor, and both trucks. They will all stand without breaking at minus 32 degrees.

The Japanese Relocation center at Poston, Arizona, sent in a crew to haul the wire, originally stored in Chaco Canyon by the Grazing Service, to the railroad for use at their camp. The boys, most of them born and brought up in or near the metropolitan centers of California, were much impressed by the great distances and "barrenness" of this country.

The tractor is back in shape after several weeks of idleness and an effort is being made to get the roads in shape again. They have been graded several times, but need a number more.

A wall was built, during the month, in the garage which divides it into two rooms. One for the pick-up and one for the generator.

It is a beautiful day on the Chaco, and the snappy days of the late fall are thoroughly enjoyed.

CHIRICAHUA, by Frank L. Fish, Custodian.

Visitors this month - 710; travel year to date - 924.

Armed forces using the monument this month gave us an increase over the corresponding period of last year. Regular visitors show a decline which is to be expected with the further curtailment in gasoline. Nothing of an unusual nature was noticed in visitor reaction, except that the large army convoy (400 men) did some damage to the shrubbery around the parking area. It appears to be an army custom to drive into the brush to park their vehicles.

Park Service inspection. Regional Director Tillotson, Chief Forester Coffman, Assistant Regional Director Richey, and Regional Forester Ratcliff visited the area on the 24th and gave us the critical glance. Outside of being made a temporary lier (until I could find the letter in my files) their visit was enjoyed by the custodian.

Maintenance. Consisted of gutter cleaning, trail work and general house cleaning.

Cooperation. Was given to the Forest Service Road maintenance crew, allowing them bunking space in the warehouse for a few days; rental of Residence No. 2 to the Mineral Access Road bunch of the same service; and attendance with our tools at a grass fire near Dos Cabezas one night (the fire was out when we arrived) but with a wind it could have been in our neighborhood before long. Annual leave was taken by the custodian to aid a neighboring rancher to ship his cattle.

EL MORRO, by George Baxter, Custodian.

Visitors this month - 40; travel year to date - 61.

General. We have had nice weather at this monument and visitors continue to drop in occasionally.

I was very busy the first part of the month making preparations for winter. Could n't hire anyone to haul our coal, so Mac from Chaco took pity on us and brought us a load. He doesn't think much of our roads, since he came out here in a snow storm. After the roads dried up I decided to venture out in our old dump truck, so I hauled two loads of coal in it. Took annual leave from November 9 to 22.

Weather. We had an inch of snow on October 29. Maximum temperature 73 degrees on October 26, minimum 12 degrees on November 7. Precipitation .90 inch.

Use of monument facilities by the public. 40 visitors arrived from the following states: New Mexico 19, California 4, Tennessee 4, Texas 6, Colorado 4, Missouri 1, Kentucky 2. Thirty eight persons made the Inscription tour in 11 conducted parties. Two visitors wanted information only. Total guide time, 11 hours. Personnel engaged in guide service: George Baxter 5 hours; Hazel Baxter, 45 minutes; Obie Worthen 3 hours; Laura Mae Barnes, 2 hours, 15 minutes.

N.P.S. visitors. Irving McNeil of Chaco Canyon brought in a load of coal on October 29 and spent the night with us. He sure would like to move our house up to Chaco. Engineer Bradley came in this morning to talk over the soil and moisture project with the custodian. He stayed to eat Thanksgiving dinner with us.

Maintenance, improvements and new construction. Office work, getting in winter supplies and annual leave, have taken up most of my time this month. Finished coal shed and got in winter supply of coal. Received two new fire extinguishers from Casper, Wyoming; checked them, and installed one in ranger cabin. Cleaned up yard back of residence. Talked McNeil out of some flooring for the ranger cabin. He hauled it to Gallup in his dump truck, and I brought it out here in the pickup, making two trips.

Projects for ensuing month. Catch up on office work, bring in road signs, and continue work on ranger cabin.

GRAN QUIVIRA, by Joseph H. Toulouse, Custodian

Visitors this month, 25; travel year to date, 45.

Continuing and routine projects. This custodian was on assignment to the Region Three Office from October 27 to November 15 and substituted for Naturalist Dodge in preparation and checking of reports prior to forwarding to Director's Office; personnel reports, etc were handled. A complete file of physical plant indices were prepared for transmittal to all monuments having such developments. First section of the proposed Southwestern National Monuments "Administrative Manual" was prepared - - "Expense Accounts." Upon return to the monument, 95 Kodachrome slides were repaired and mounted for the Naturalists' Division, stormsashes were installed in quarters, and other winterization was made. One trip was made to Estancia--Torrance County seat --for data to be used in the land acquisition report. Telephone materials were prepared for shipment and were sent to Saguaro National Monument. Fifty two-fold leaflets were mailed to the Carlsbad Chamber of Commerce as per their request. Pickup I-13850 was serviced for winter and repairs made to starter. One day was squeezed in on the Water Systems Report.

Continuing projects. Again to Region Three Office for additional aid to that office, upon return, continuance is expected on various reports still in preparation.

MONTEZUMA CASTLE, by Homer Hastings Custodian

Visitors this month 153 - travel year to date 3[illegible]6.

General Although travel was far below normal, November was a busy month at this monument. We have had the usual variety of maintenance duties, a soil and moisture project completed, and a project to place the telephone in Residence No. 2 completed.

Weather. The weather has remained ideal for our work, but too dry to please the neighboring farmers and stockmen. Mornings are nippy and the fuel oil heater is needed, but this can usually be turned off by 10:00 or 11:00 A.M. Maximum temperature for the month was 88 degrees on October 27; minimum 21 degrees on November 1 and 8. The mean maximum was 74.93 degrees; the mean minimum 31.39 degrees. There was no precipitation.

Administration. Ranger Clark was on sick leave November 1 to November 9 inclusive. Relief was rendered Ranger Sowers at Tumacacori National Monument on October 27 and November 10, 17, and 25. The President has now signed the bill authorizing the Secretary of the Interior to acquire 180 acres of land known as the Montezuma Well property to become a part of Montezuma Castle National Monument. It also authorizes the addition of 80 acres of Coconino National Forest land to the monument. However, the bill did not appropriate any funds to secure the privately owned land and it is still necessary to secure an appropriation through Congress before the area becomes part of this monument.

Maintenance, improvements, and new construction. Sixteen pick-up loads of dirt and silt were removed from the east cattleguard and the material used to fill low places in the service road and road to the picnic ground. Liquid soap was used to carefully check all connections in the "bottled gas" installation for Residence No. 1. One leak was found and corrected. A bad leak developed in the main water line near the west end of the foot bridge. This had to be dug up twice before it was successfully repaired. The telephone in the office, an extension of the pay station phone in the museum, was moved to Residence No. 2. To do this it was necessary to lay conduit under the pavement around the parking area and string about 500 feet of wire. The project has been under consideration for several months while approval of the Director was sought, materials were secured from several sources, and the location of existing connections was determined. We now have twenty-four hour service instead of the uncertain service that has existed only when we were within hearing of the phone in the office.

Water lines to the drinking fountain in front of the Castle and to the picnic ground were turned off to protect them from freezing.

Soil and moisture planting. On November 15 a stream control project was started with four Apache Indian laborers under the direction of Ranger Clark. Approximately 1275 rooted water motie plants and 25 willows were set out. These were placed in the creek bottom between the revetment wall along the creek and the visitor trail. A bucket of water was poured around the roots of each plant set. About 250 plants had their roots dipped in a clay solution mixed to about the consistency of thick cream. This was done to retard evaporation and to assist in establishing capillary action between the roots and the soil. A check dam was constructed across a gully near the picnic ground and silt from last summer's rains was removed from the trail and rooms in Castle A. The project was concluded November 24.

Use of park facilities by the public. Total cars, 47; Arizona cars, 32; total states represented, 15; foreign countries, Mexico. Total visitors, 153; number of tickets sold, 54; revenue received, $15.18; members of the armed forces admitted free, 4; children admitted free, 7; tax but no tickets 2.

Guide service. Total contact hours, 40.45; Hastings, 32; Clark, 8.45. Ruins trips, 25 for 63 visitors; museum parties, 36 for 129 visitors. Information service for 13 visitors. There was one picnic party of three people.

Visitor reaction to the interpretive program. Visitors continue to express approval of the unit cases in the museum. These cases are not overburdened with exhibits and each case is organized to function as a unit independent of the others and to emphasize some phase of our interpretation.

Projects for ensuing month. 1. Complete repair of road to picnic ground 2. Saw more wood for fireplaces. Our saw is manually operated. 3. Check physical plant index. 4. Take record pictures of some of the walls in Castle A. 5. Render relief to Ranger Sowers at Tuzigoot one day each week. 6. Start a study of Custodian Ferris' Training Course Questions from the April - June Monthly Reports as they apply to this monument.

NAVAJO, by Bill Wilson, Custodian

Visitors this month 1; travel year to date 7.

Visitors. One visitor this month was conducted to Betatakin Ruins.

Weather. It has been a beautiful month. The high was 71 degrees on October 26 and the low 17 degrees on the 1st of November. A rain and hail storm on the 29th brought .32 inch of moisture. Followed a clear period until last night when rain, sleet and snow fell. It continues intermittently today.

Roads. About as usual. Good most of the way.

Radio. The Indian Service at Window Rock has discontinued radio communication until next spring when the fire look-out towers will be manned again. The operator left for another job. This radio has therefore been disconnected for the winter. With Lava Jack in the corral and our nearest Navajo neighbors 4 miles away, we should have no trouble in getting in touch with the outside world if we are snowed in.

Maintenance, new construction. The principal project for the month has been the hay and horse barn. It is complete except for a few odds and ends.

Continued projects. The usual maintenance and office work will be kept current. Inspection trips and work on the corral and barn will be made as weather permits. We take this opportunity to extend our cordial good wishes for the holiday season and New Year to all Region Three and Southwestern Monuments personnel.

ORGAN PIPE CACTUS, by William R. Supernaugh, Custodian

Visitors this month, 5574; travel year to date, 10,917

General. Our usual perfect winter has come to Organ Pipe with warm days and cool nights. Although a few mornings were cloudy, no rain occurred during the month.

Buddy Cox, our roads maintenance man was called to the armed services this month and succeeded in getting his choice of the Navy, reporting for duty November 16. We hate to lose Buddy as he is a fine maintenance man and we just had him broken in for the proper maintenance of Park Service roads. We are expecting a replacement, but as yet no definite word has been received as to who it will be.

Some time was spent on fence repairs to get them in shape until the project for flood gates can be started. This project was approved and work will start as soon as men can be found.

Gene Stonehocker was down October 26 to help hook up our light plant and brought parts for it. Gene brought his sister who was visiting him at the time.

Roads. The oiling of the highway was completed November 24, and our contractor is now moving out. At last we have a completed road. Due to cuts in oil the road is not up to the standard we would like to see, but it is at least surfaced and good for a while.

Projects for the coming month. Most of the month will be taken up with installation of flood gates on the north boundary fence with the remainder spent in administrative details and some work on our headquarters improvement.

SAGUARO, by John Peavy, Custodian.

Visitors this month, 358; travel year to date, 614.

Travel. Visitors this month 358, cars 113, instate 60, outstate 53. Guide time: 21 hrs. 40 min. J. Peavy, 19 hrs. 25 min; M. Peavy, 2 hrs. 15 min. Men in uniform 57.

Weather. We have had sunny days for the entire month, all permanent water is either dry or drying up. Stockmen are hauling water to dying stock. During my patrol trip to Manning Camp on November 23 the temperature dropped to plus 21 degrees F.

Inspections and investigations. Acting Regional Geologist Maxwell and Associate Architect Bennett were here on the 3rd. and 4th. examining possible building sites for temporary Ranger Station and barn and looking over possibilities for developing water for domestic use within this area.

Special Reports. I spent the 10th and part of the 19th working on the land status report for Saguaro at the County Court House.

Hunting patrol. Most of this month has been spent in patrolling for possible encroachment on the monument by deer and quail hunters. I have had very little trouble this season although there seems to be just as many hunters as usual. My observations on this general area in and out of the monument this season, has shown an outstanding lack of buck deer and a great number of barren does. If this situation is not corrected, especially among the Mexican Mule Deer, the deer here will soon be talked about as something which existed in the past as compared to the now almost extinct bighorn sheep and wild turkey.

Manning Camp. I patrolled the Rincons on the 22nd, 23rd, and 24th. There have been no visitors to Manning Camp since my last visit. The spring was very low for this time of year and all vegetation and ground cover found to be dry and dusty. The telephone line is still in workable condition.

Tucson office. Due to increased patrols I have only been able to spend parts of two days in this office this month.

Closing. At present I am lining up ration points, horses and saddles for the coming trock of Park Service officials to the forested area.

Changes noted in visitors reactions due to war. None were noted.

SUNSET CRATER, by Philip F. Van Cleave, in charge.

Visitors this month: 220; travel year to date: 424.

Visitor use. Visitors for the month included registrations of persons or parties from Mexico, Canada, Brazil, Hawaii, and Iceland. This shows a fair "percentage" of the travel coming from out of the country. Registrations are continuing to indicate a greater percentage of out-of-state use as compared to the statistics for pre-war use. Most of the people that manage to get off the beaten track, seem to be those who are making necessary cross-country travel.

One fallen tree was cut up and disposed of on my monthly trip for visitor data. At the same time, a trip was made to the summit of the crater and an inspection of the lands on the east slope of the crater.

TONTO, by E.C. Gipe, Custodian

Visitors this month: 153; travel year to date 373.

A total of 153 visitors entered this area in 47 cars. Cars instate 18; outstate 29; members of the armed forces 18; ruins trips 28 with 84 people; museum groups 35 with 104 people, informational contacts 21. Personnel time; Custodian 48.6 hrs.

Visitor reaction. No noticeable change from last month only that we have fewer cars on week days than usual.

Weather. One rain the first of the month and quite a little cloudy weather. One hard frost, considerable wind, many beautiful days, typical Arizona fall days.

General. Have been hauling the rest of the cement for the floor and the last of the supplies for the temporary cabin. Work on it has gone along well and expect to move in next week sometime. Then all the rest of the work can be done as time permits. Have put in considerable time on the pickup in a general going-over and rushed work on the temporary cabin as much as possible.

On November 1 Mr. Maxwell arrived at this monument. We were more than glad to see him and to have a chance to get acquainted with him, this being our first meeting with him. Many matters were gone over and much straightening out done. His understanding of and patience with other people's problems particularly our kind, made it a pleasure to work them out with him. We hope we may have him here again and for a longer stay.

On November 2 Forest Ecologist Kenneth W. Parker was here and spent considerable time looking over the various flowers then in bloom and finding this area intensely interesting. He plans to return if possible for further study.

Flora. There have been many flowers in bloom the entire fall, yellow, of course, predominating. Seven varieties could be counted by the steps leading to the museum almost any time. A number of devils claw plants have bloomed there and produced "claws" in profusion to the great interest of many visitors.

Wildlife. There is one new bird this fall, or at least we have not seen it here before, the Woodhouse Jay. The first Phainopepla of the fall was seen today, also a mockingbird. There are more Arizona cardinals than last year, or at least they are seen more often. The Cactus Wrens are gathering

in and the Quail are abundant and quite unafraid. There are a good many birds here and they are always doing something smart and interesting; this morning a Flicker caught a piece of bread, thrown in the air. Wish it were not war-time so that I might write at length on some of their clever performances. Tracks of a Mountain lion, were seen one morning last week, in the soft dirt around the temporary cabin (no, it was not a coyote track) and a short time ago a large rattlesnake crawled through some muddy water on the concrete, leaving a plainly marked trail on the dry section, as he went out the door. Many ducks are seen on the Roosevelt lake and a large flock of geese are staying around the upper lake shore.

Projects for the ensuing month. Continued temporary cabin work and construction of cesspool.

MONTEZUMA CASTLE, by Louis R. Caywood, Custodian

Visitors this month - 451; travel year to date - 772

Visitors. Four hundred fifty one persons were conducted through the mission ruins and museum in comparison to 593 for the same month of last year, or a decrease of 27 percent. The class of visitors is exceedingly high and is approximately 80 percent women. The custodian took 51 trips and spent 41 hours 35 minutes with visitors. The ranger took 45 trips and spent 43 hours and 25 minutes.

NPS Visitors. A regularly scheduled inspection trip was conducted by Regional Director Tillotson and Assist. Regional Director Richey on November 25. Foresters Coffman and Ratcliff accompanied the inspectors.

Maintenance. Regular maintenance was performed throughout the month. Weeds were cut, hauled and burned. Wood was hauled and cut for fireplace use.

Museum. Burned out light bulbs in museum cases were replaced.

TUZIGOOT, by Ted C. Sowers, Acting Custodian.

Visitors this month, 275; travel year to date, 582.

Travel. Travel has dropped this month in comparison with October and this is no doubt due to the cut of three gallons of gasoline per week. Instate visitors numbered 178 and outstate visitors 97. There were a total of 79 cars with instate numbering 47 and outstate 32. There were 56 members of the Armed Forces who visited the monument and included 2 Waves. They were right smart and perky girls. There were no N.P.S. visitors.

Guide and contact service. Museum 32 hrs, 50 min.; Field 45 hrs. 40 minutes.

Personnel time. Acting custodian Sowers; 74 hrs., 40 min.; Custodian Hastings; 6 hrs., 40 min.; Ranger Clark; 3 hrs., 10 min. Clark relieved on Nov. 10 and 17; Hastings on Oct. 27 and Nov. 25.

Projects. Installed new battery in U.S. I-13852 and made minor adjustments on motor, also gave it a grease job. Cleared more weeds from paths to ruins. Cemented loose stones which served as steps on west side of ruins. Also repaired several broken drains on same side. Spent time removing rocks, cement and wire in Unit IV which improved its appearance. Checked stabilization photographs of Tuzigoot and placed negatives in dust and lightproof containers. Hoed all weeds in parking area and didn't realize how large an area this was until finished. Checked on gasoline situation and was able to save some valuable gas for use in the pickup. Gasoline in one barrel was worthless due to previous asphalt in barrel. Excavated 15 fence posts set in cement and were they set! Have 20 posts and 3 rolls of very rust wire

for Bill s [illegible] t Green Pine. R[illegible] ed se[illegible] d[illegible] in rusour to give more s[illegible] and [illegible] time impro[illegible] under [illegible]. Painted portions of floor which badly needed it. Finally, and can hardly believe it, located the leaks in the water line. This was the lucky day I had been waiting for. Found them in all and in unusually places. Have no more clamps so hope the line can hold for awhile.

WHITE CANYON, by Paul Beaubien, Custodian.

Visitors this month - 55[illegible]; travel year to date - 94[illegible].

General. This has been a month of fine clear weather.

Visitors. Of the 55[illegible] visitors, 56 were not contacted and it is estimated that 110 made the ruins trip unattended. Twenty nine visitors were conducted around the ruins trail. Hours spent in interpretive contacts are as follows: Beaubien, 54.

Inspections. Victor Calalere was caught in Flagstaff with a day on his hands, so came out and took the Acting Custodian on a good hike across the canyon.

Wildlife. Another hunting season has passed with several bucks being shot just outside the boundaries. This is the first season on record that I haven't heard shooting on the monument so I have more confidence in the fence and signs now. Two turkeys were shot about fifty years outside the north boundary. Their crops contained a few juniper berries but 95% was grass or vegetation such as dandelion and alfilaria. I never knew that alfilaria grew this time of year but it seems common about the monument. This year there were no acorns or pinyon seeds within many miles.

Activities. Most of the month was spent at the routine jobs of administration, contacting, clean up and maintenance of facilities. The sump at the take-off of water line is constructed so that any rain will wash sediment inside, so a ditch was dug that will permit some to get away. Some rocks were raked off the ruins trail and some trash carried up from below. Fire tools were hung up for the winter and the backpack pumps drained. The water system oiled. [illegible] and the outside hydrants were turned off and drained. Some maintenance was done on the telephone line. An inventory of CCC materials is almost complete. Phil Van Cleave brought in about another load of coal. The Army's job of cleaning up the site of the Ft. Elder CCC Camp was inspected.

Changing trends in public use, etc. Fewer were served.

Projects for next month. Mostly the routine jobs. I do expect to clean the sump.

WHITE SANDS, by Paul Steel, Acting Custodian.

Visitors this month - 2,7[illegible]; travel year to date - 4,4[illegible]

Travel at White Sands continues to show a definite decrease. However, more stringent regulations on travel and inability to replace worn tires are probably partially responsible for the drop. Parties and picnics from the nearby Air Base have virtually stopped for the season and other Army movements in the section are quiet. The 677 reported as Armed Forces Use have been individuals or very small groups.

This portion of southern New Mexico has experienced quite a cold wave the past few weeks. A low of [illegible] degrees was noted on November 8 forcing

this area to fire up the oil furnaces about six weeks ahead of the usual schedule. The days have more than compensated for the cold nights with a high of 87 degrees on October 25. Most local people now are having picnics in the afternoons rather than the cold evenings.

We enjoyed a six hour visit with Ross Maxwell and Lyle Bennett of the Regional Office early in the month. It was Ross' first visit to the area so we gave him the works, as much as possible during their brief stay. Lyle made some very good suggestions on our redecoration work which are being carried out. A great deal of time has been spent working up a budget for the year. It has been completed and submitted to your office. Through the efforts of Ranger Knabenshue, a system has been set up to keep a close check on all expenditures. Other administrative work has been mostly routine. Temporary authority was given the Post Engineer at the Alamogordo Air Base for flare installation on monument property and has been submitted to the Regional Office for final approval.

Decrease in travel is permitting an increasing amount of time devoted to maintenance. It takes a long time to catch up once one gets behind but we hope to be current again in the near future. As mentioned last month, some time has been put in on signs. This project is nearing completion and the coming month should see all signs overhauled and up once more. The painting of the museum lobby has been completed and many favorable comments have been made on its appearance by visitors. We plan to repaint the hall and office during the coming month if possible.

Although fewer visitors are reported, the ones who stop in are spending more time in the area and museum and are seemingly anxious to have the story of the Sands thoroughly explained. Nearly everyone leaves the impression that they feel the war is practically over.

In spite of reduced visitation, Mrs. Tom Charles, park operator, will report a little better than average month. (Probably proving that people have more money than they know what to do with).

As has been previously reported, Custodian Harris has been in ill health with a serious kidney infection. Local physicians recommended a trip to Los Angeles for surgery after exhaustive studies of his condition. Johnwill left November 12 via train and word has been received that he was operated on the 16th and is now recovering satisfactorily. He is expected to return home about December 10 but it will probably several more weeks before he can return to duty. Johnwill is missed a great deal by the local people as well as by monument personnel and all wish him a speedy recovery.

Special event. The Alamogordo Rotary Club sponsored a commemorative exercise November 21 in honor of former Custodian Tom Charles and the entrance of the Spanish explorer Cabeza de Vaca into Otero County. The event was held in the Heart of the White Sands with Assistant Regional Director Richey as principal speaker. Many old friends of Tom attended and left with a better understanding of the years spent by him in gaining national recognition of the White Sands.

[illegible], by Philip W. Van Cleave, Custodian

Visitors this month - 40; travel year to date - [illegible].

Activities. Two and a half days of sick leave were taken the last week of October. The second and last trip to Navajo National Monument was made on the second and third of this month. Coal was hauled to Walnut on the

return trip. Custodian Wilson made his second recent stop to get more lumber on the eleventh. Two days were spent in tearing down additional small buildings for this purpose at the Heiser Side Camp site.

Office work in relation to the report on lands, boundary inspection and work with the officers of the local land owning company took up a good proportion of the month.

Pickup trouble also made inroads on the available time to the extent of two day's work in cleaning the tank, fuel line and gas pump and several odd hours employed in trying to keep the generator in working order.

Work on the Navajo grazing problem is slowly shaping up. The inability to rush this through is due to the fact that the local Navajo are only now beginning to come back into Tupatki Basin from the farms near Flagstaff where many of them have been employed during the harvesting of crops.

PERSONNEL NOTES

Hank Schmidt writes in from Sequoia that the place is getting to be an "old men's home" and that when he and George Sholly are gone, practically the entire staff will be made up of men over 50. Hank expects to "get the call" early in January and says that George has been told to report for induction on December 27. Nice that they let you stay home for Christmas, George!

If Davey Jones could have read the October report he would have congratulated himself on being in the army, or at least away from Tupatki. Phil. says, "The tunnel from the spring had to be cleaned out for its entire length from within, which entailed crawling through the darkness in water and slime with little room to use arms and legs for propulsion". Successful accomplishment of this task should place Phil. in the Q.C. (qualified custodian) class.

This new abbreviation reminds us of a paragraph in a recent letter from Staff Sargeant Vince Ellis, still at Camp Beale, California, but expecting his unit to be moved to Texas soon. Vince indicates that some of us civilians, especially those entrusted with mailing material to men in the Service, might well familiarize themselves with the meaning of the more common abbreviations used. We admit the worth of such a project which would be facilitated if some of the men upon whom the addresses were inflicted would take a little more care in writing these abbreviations so that they could be deciphered with some assurance of accuracy. Vince sent "Christmas Greetings to the Whole Gang".

A "V-Mail"Christmas card has been received from Goodie Goodwin, now attached to Admiral Fitch's staff and handling correspondence for chief of staff. Seems as how maybe Goodie might have a chance to represent the Southwestern Monuments in surveying the ruins of Tokayo from the deck of a battle wagon.

Claude McKenzie, short-time custodian at Chaco Canyon, stopped in at Headquarters a week or so ago. He is now in the Navy and was en route to a new station. On the same day Carl Alleman, formerly foreman at the Arches CCC Camp, paid us a call. Carl is still much interested in the monuments and asked to have Personnel Notes sent to him at Clovis, New Mexico, where he is working with the U.S. Engineers.

Johnwill's operation for kidney stones was a complete success, and he is supposed to be back at White Sands now. However, we haven't had confirmation of that fact.

Thanks to all of you who sent us Rick's address. He has already acknowledged receipt of Personnel Notes, and has told us about the wine and

women of Italy, in both of which he disclaims any interest whatever.

It seems that during the hunting season, just passed, George Baxter got his deer without firing a shot. George has an old rifle, reported to be of the muzzle-loading variety, and was out one day in deer country when a wounded buck staggered out of a thicket and fell almost at George's feet. George dispatched the deer with his hunting knife, and went for help to get the carcass home. The neighbor who returned with him seemed not at all surprised at George's story, figuring, after looking at the rifle, that any deer who saw it would give up without a struggle.

Another deer hunting story perculated in from up Aztec way. It seems that Cal. took some annual leave tohelp a sick neighbor round up his cattle. They took their rifles along to the roundup camp, and one evening were sitting around swapping hunting yarns about the miraculous shots that they had made, when all of a sudden a big buck trotted right through camp, kicking over the coffee pot en route. Someone grabbed up a gun, someone else snatched it away from him, then a third member figured he was the best shot, while the fourth member of the party stood there with his mouth open. During the excitement the deer trotted safely away without a shot being fired.

The flu, which has been making the rounds during December, has paid a call at a number of homes, probably more than have as yet been reported. Gene Brooks has been very sick and away from the office for more than two weeks. Ross Maxwell "took down" several days ago and, as this is written, has not returned to work, and Judy Dodge was in bed several uncomfortable days. Speaking of illnesses, everyone will be glad to learn that Earl Jackson is much better. Shortly after he took sick, his whole family was down with the flu, and the Jackson outfit was pretty blue. Now Betty and the boys are fully recovered, and Earl is much improved with hopes of being up and around again much sooner than he at first expected. Betty's mother has come out from the east to help run the house so that Betty can speed up Earl's recovery.

Claire Cook (better known as "Cookie") has finally arrived with his family at Casa Grande where he will hold down the Casa Grande-Saguaro shuttle job. Cookie is no novice at rangering, having been with the Forest Service in the Northwest for a number of years, a CCC project superintendent during "emergency" days, and ranger and acting chief ranger at Carlsbad Caverns National Park. Mild mannered, soft-spoken, and smiling, Cookie has a way with visitors, but he can also ride a horse and fight a fire. He and his family will make a powerful addition to SW Monuments, to which they are heartily welcomed.

Jack Cotter has reported in at Camp Roberts, California, and writes of sore muscles and tired feet. One of his customarily humorously-written letters indicates that he did not encounter the expected difficulties in keeping up with the 18-year-olds, and that his appetite has improved to the extent of contributing 10 pounds to his averdupois.

Charlie Steen writes from the guard house to disclaim having been a bad boy, but with a little spare time while on guard duty. He says that the hardest thing he has had to learn is to salute officers, most of whom take advantage of the frequent opportunities to remind him of his neglect of duty. We wonder if there will be any other "absent-minded scientists" who return to their interpretive duties from the armed forces better qualified to keep from losing valuable papers in little-used portions of their desks. Steen finished basic December 11 and, when he wrote, anticipated being shipped any day.

We nearly forgot! (speaking of absent-minded interpreters) Rick. wrote that he is Supply Officer, War Bond Officer, Mess Officer, and Unit Historian, but that he manages to find time to get into the field every day. That field, Rick., you couldn't mean the vineyard?

Helen Maxwell had a narrow escape recently. In what she thought was a skid on one of Santa Fe's icy streets, her car suddenly went into the ditch. However, upon examination it was determined that the steering mechanism had come uncoupled. Had it happened on a straightaway, even at 75 miles an hour, such an occurrence might have been serious.

Carlton Wilder (seasonal Saguaro) is now in the army medical corps at a hospital at Santa Barbara, California. Judy writes from Tucson thanking us for Personnel Notes which she forwards to Carlton.

Sgt. Dale King, now at Officers Candidate School in Miami Beach, Florida, strained a tendon so had time to write a letter in which he solicits word from the gang. He says that he surprises himself in his ability to look and act like a soldier. He expects to graduate and get his bars on March 4, next.

Lieut. Stanley Milford (seasonal Aztec) is in the Air Force at Ellington Field, Texas. He says he can't divulge the number of men at the base, but that you can let your imagination run wild and still guess low. He enjoys his work which has to do with the functions of the personnel office, and looks forward to the coming of "Personnel Notes" which serves to keep him in touch with his part of the Southwest.

Although it is getting pretty late to send out Christmas greetings, many of you may find use for the addresses of former Southwestern National Monument fold, so an up-to-date list follows:

Ariss, Lt. (jg) Robert, USNR, Communications Office, U.S. Naval Repair Base, San Diego, California.
Bowen, PFC Wm L., Ho-Ho Battery AAATC, Fort Bliss, Texas
Bradley, Capt. Quintin, USMC, 4401 Cass St., Pacific Beach, San Diego, Cal.
Brewer, James W. Jr., CETC 94NC Bat., Co. A, Plat. 5, ABATU, Long Beach, Long Is. N.Y.
Eden, CCM James, 71st. US. NCB, Co. B, Platoon 6, c/o Fleet P.O. San Francisco, California.
Egermeyer, Don: Rt. #2, Bx. 675A, 2425 E. Prince Road, Tucson, Ariz.
Elmore, Ensign Francis H., USS-PYC 45, San Diego, Calif.
Ellis, S/Sgt. Vincent; Hdqts. Bat., 492 Armored Field Art. Bat., 13th Armored Div., APO 263, Camp Beale, California.
Enlows, Lt. Harold; (A-V (S)) P.G. School, Annapolis, Md., USNA.
Goodwin, Yeoman 1C, Flag Office, Commander Aircraft, South Pacific Force, c/o Fleet P.O., San Francisco, Cal.
Jones, PFC. David J., 39353541, 7th Photo Squadron, Will Rogers Field, Oklahoma City, Okla.
C/O Dale S. King, Sq. 16, AAF.ADM, Class 44C OCS, Miami Beach, Florida.
Lister, Capt. Robert H., 107 Pinehurst St., Hattiesburg, Mississippi.
Milford, Lt. Stanley J., 0-923464, AAFPS (B-N),Ellington Field, Texas.
Onstott, Lt. Tom, 2018 Beacon Ave., Columbus, Georgia.
Ringenbach, Lt. Ray 0-2055504, 1073 rd. Ordnance Co., Avn. A.B., APO 528, c/o Postmaster, New York City.
Shuft, CSP (A), Peter H., V-12 Naval Training Unit, DePaw University, Greencastle, Ind.
Steen, Pvt. Charlie R., 38583108, Co. D, 1st Bat., 3rd Prov. Tr. Reg., Camp Claiborne, La.

Cotter, Pvt. John L., ASN 39867065, Co. A, 76th Infantry Trn. Bat. Plat. 3, Camp Roberts, California.
Upton Lt. (JG) Robt. F., USNR, BOQ Section Base, Little Creek, Va.
Vogt., Ensign E.Z. Jr., USNR, NAF-BxDD, Navy 118, Fleet P.O., New York City
Wilson, Estes E., CTLC, Area D-7, Platoon 651, Barrack D-7-104, Camp Peary, Williamsburg, Virginia.
Richert, Lt. Roland 0-452593, APO 38, 32nd. Cav. RCN Troop, c/o Postmaster, San Francisco, California.

FORMER STAFF PERSONNEL AND WIVES WHO WOULD LIKE TO KEEP IN TOUCH

Allerton, Carl; U.S. Engineers, Clovis, New Mexico
Alberts, E. C., Box 1, Whites City, New Mexico.
Cronyn, Ted; U.S. Army Engineers, Ft. Sumner, New Mexico.
Castellum, Luis A; Grand Canyon, Arizona.
Maury, Dr. Emil; University of Arizona, Tucson, Arizona.
Manning, Millard; Rt. #7, Yakima, Washington
Miller, Hugh M.; 1337 W. Fargo, Chicago, Illinois
Story, Miss Isabelle; 421 Melrose, Chicago, Illinois.
Wilder, Mrs. Carleton; 1642 E. First St., Tucson, Arizona.
Wyatt, Charles; 200 Chance St., Kilgore, Texas.
Jones, Mrs. David J.; Box 601, Flagstaff, Arizona.
Hill, Gertrude; Flagstaff Public Library, Flagstaff, Arizona
Torres, Howard J.; Box 752, Ancon, Canal Zone.
Cotter, Mrs. Jack; c/o Dr. A.F. Tonelin, 518 No. 40th St., Philadelphia, Penna.
Wren, Mrs. Judy; Box 245, Bayfield, Colorado.
Schmidt, Harry J; Sequoia National Park, California.
Sholly, George W., Sequoia National Park, California
Soule, Parke W.; Yellowstone National Park, Wyoming.
Vivian, Gordon; Box 371, Pecos, Texas.

ADDRESSES UNKNOWN

Sharp, Charles (in Navy)
Pinkley, Addison; (in Navy)
Lt. Jesse Jennings (last heard from in Iceland)
Ensign A.J. Krefe
Ensign James Stuhler
McKenzie, Claude (Navy)

(More Personnel Notes)

In an official statement, MacNeil denies by implication that his 674 per cent travel increase is due to the great influx of visitors who have come to Chaco to see the bearhide. But how can this phenomenal rise be explained in any other way?

With the advent of cold and snowy weather, Chuck came to work encased in an enormous black coat that, at first glance, somewhat resembled a bear hide! . However, closer inspection revealed a curliness of the hairs not characteristic of the large native American normal.

Our patient, Earl Jackson, is much improved, is up and around the house answers the telephone, and is taking plenty of interest in his surroundings.

His doctor is quite pleased because Earl is getting along better than he had dared to hope.

Gene Brooks is back on the job, but is in a state of confusion because of trying to be administrators' secretary and mails and files clerk at the same time. Headquarters of these two positions are in widely separated parts of the building.

Ted and Cecelia Sowers' Christmas card made quite a hit at Headquarter Cleverly conceived and artistically executed, it attracted a lot of attention when posted on the bulletin board.

A note from Sallie Brewer indicates that Jim is "on his way". His address now is "Fleet Post Office, New York City". Sallie writes that it will be five or six weeks before Jim can reveal his whereabouts, but that he is getting a whole of a kick out of the assignment.

IN MEMORY OF FRANK FISH

On December 29, 1943, Custodian Frank L. Fish of Chiricahua National Monument died in the hospital at Douglas, Arizona, of complications following influenza. He is survived by his mother, wife, three daughters, one brother, and two sisters.

With the passing of Frank Fish, the Southwestern National Monuments lost one of their ablest and most loyal custodians. "Frankie", as he was popularly known in the Service, was born on a ranch near Redding, California, on November 2, 1902. His youth was spent in various parts of California where his mother taught school, and he especially enjoyed hunting, fishing, and roaming the California hills. He attended seven different grade schools in nine years, went to highschool in Oakland and San Francisco and, after a year at Drews Coaching School, entered the University of California.

For several years Frank followed such outdoor occupations as ranching, wood-cutting, bridge construction, and guiding and packing. On October 1, 1928, he was appointed temporary ranger at Yosemite National Park followed by a similar appointment at General Grant National Park; and on May 1, 1930, he received an appointment as permanent ranger at Casa Grande National Monument. Later he served as ranger at Montezuma Castle and as custodian at Chaco Canyon. His appointment as custodian of Chiricahua National Monument came on July 1, 1936. He remained there the rest of his life, supervising the major physical developments of the monument under the PWA and CCC programs.

On July 9, 1931, Frank married Cerabeth Lavender, an Arkansas girl. Their three daughters, Joan, Frances, and "Becky", are widely known throughout the Park Service as "the minimers". At the time of Frank's death their respective ages were approximately eleven, nine, and seven years.

"Frankie" Fish was beloved by his contemporaries in the National Park Service and by the ranchers of southeastern Arizona because of his consistent good humor of the poker-face variety, his eagerness to give everything he had for the good of his monument and of the Service, and his unselfishness in lending a helpful hand to friends, neighbors, and monument visitors. Frank came to Casa Grande highly recommended by Superintendent White, and "Boss" Pinkley always considered him as one of his right-hand men. On the big Sugarloaf fire of 1943, Frank Fish was always on hand where the fighting was hottest, and took only a minimum of time for eating and sleeping.

Perhaps the most typical statement that could be made regarding Frank's philosophy of life and service is taken from his biographical sketch "submitted under protest" in response to official orders. He wrote:

> "I have always been taught that all citizens in America have equal rights, and a person should stand on his own hind legs and not depend on someone else to aid him. For this reason, I have never joined any organizations. However, our early pioneer teachings were to aid the other fellow in trouble or misfortune."

Arizona Archeological Society Library

SOUTHWESTERN NATIONAL MONUMENTS TRAVEL STATISTICS
NOVEMBER, 1943

Station	Nov. 1943	1944 Travel Yr. to date	Nov. 1942	1943 Travel Yr. to date	Increase or Decrease	% Incr. Decrease	1944 Fiscal Yr. to date	1943 Fiscal Yr. to date	Incr. or Decr.	Incr. or Decr.
Arches	80*	100*	0*	103	-3	-2.91	366*	475	-109	-22.94
Capulin Mountain	300*	1300	500	1500	-200	-13.33	8800	13800	-5000	-36.23
Chiricahua	710	924	437	727	+197	+27.09	2149	3971	-1822	-45.88
Natural Bridges	0*	2	0*	47*	-45	-95.74	88*	221	-33	-14.93
Organ Pipe Cactus	5534	10917	3266	5867	+5050	+86.07	25748	11957	+13791	+115.33
Rainbow Bridge	0*	0*	0*	0*	0	0	10*	20	-10	-50.00
Saguaro	358	614	600	905	-291	-32.15	1411	1701	-290	-17.04
Sunset Crater	220	424	347	947	-523	-55.22	1838	4466	-2628	-58.84
White Sands	2078	4484	3387	6432	-1948	-30.28	19308	25089	-5781	-23.04
TOTAL BIOL-GEOL.	9280	18765	8537	16528						
Aztec Ruins	363	803	439	851	-48	-5.64	3135	4305	-1170	-27.17
Bandelier	163	589	207	1053	-464	-44.06	2520	3087	-567	-18.36
Canyon de Chelly	21	41	58	121	-80	-66.11	173	695*	-522	-75.10
Casa Grande	640	1421	1308	1987	-566	-28.48	2776	3860	-1084	-28.08
Chaco Canyon	424	627	50	81	+546	+674.07	1295	347	+948	+273.19
El Morro	40	61	51	73	-12	-16.43	198	317	-119	-37.53
Gila Cliff Dwellings	0*	0*	10*	10*	-10	-100.00	28	125	-97	-77.60
Gran Quivira	25	45	55	125	-80	-64.00	198	527	-329	-62.42
Hovenweep	0*	0*	0*	18*	-18	-100.00	18*	92	-74	-80.43
Montezuma Castle	153	376	250	531	-155	-29.19	1404	2042	-738	-31.24
Navajo	1	7	2	16	-9	-56.25	32	53	-21	-39.62
Tonto	153	373	382	708	-335	-47.31	892	1360	-468	-34.41
Tumacacori	451	732	593	1004	-272	-27.09	1687	2316	-629	-27.15
Tuzigoot	275	582	465	967	-385	-39.80	1505	2565	-1060	-41.32
Walnut Canyon	355	848	608	1278	-430	-33.64	2805	5306	-2501	-47.13
Wupatki	40	72	72	153	-81	-52.94	267	566	-299	-52.82
Yucca House	0*	4	0*	10*	-6	-60.00	21	55	-34	-61.82
TOTAL HIST-ARCH	3104	6581	4450	8986						
GRAND TOTAL FOR NOV.	12384	25346	13087	25514	-168	-0.65	78672	89318	-10646	-11.92
LAST MONTH	12962	12962	12471	12471	+535	+4.3	66268	76231	-9963	-13.0

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

January, 1944

MEMORANDUM for the Custodians,
Southwestern National Monuments.

December narrative reports of Southwestern National Monuments areas are reproduced below for the information of all field officers. One copy is furnished each unit. It should, therefore, be circulated to all personnel.

/s/ Charles A. Richey,
Assistant Regional Director.

HEADQUARTERS INTERPRETIVE STAFF, by Matt N. Dodge, Associate Naturalist.

Staff Activities - General. Naturalist Dodge spent the entire month in the office attending to routine assignments and office maintenance, but it was not possible to keep current. Correspondence, however, was brought up to date. The position of Assistant Naturalist remained unfilled. Assistance was rendered in office and library maintenance by F.H. Dodge, Mabel Usrey, Joe Toulouse, Cecelia Sowers, J.P. Hamilton, and J.A. Vanden Heuvel.

Extension Services. Several Requests were received for use of the motion picture films "Glimpses of National Monuments of Arizona and New Mexico" and a routing for the two reels was prepared. The sound film loaned by Carlsbad Caverns National Park was shown at service clubs and schools in Santa Fe and forwarded to the Director's Office for use at the Regional Director's Conference. A motion picture on National Parks Wildlife was presented for patients at Bruce Military Hospital by Mr. Scoyen. Slides were shown for the Santa Fe Rotary Club to illustrate a talk on the proposed Big Bend National Park given by Mr. Tillotson.

New or Unusual Activities. A number of telephone requests for information relative to the securing of Christmas trees were referred to the local offices of the U.S. Forest Services. An inventory of all equipment held by the interpretive staff was commenced. Arrangements were completed for the crating and shipping of an herbarium case and a study skin case to Carlsbad Caverns National Park. Artifacts from Archeologist Reed's "Pancos Canyon Excavations" were packed for return to the Consolidated Ute Agency, Ignacio, Colorado.

Progress of Exhibit Plans and Projects. Lists of desired interpretive projects for all Region Three areas, except the Southwestern National Monuments, were coordinated and forwarded to the Director's Office. Follow-up letters were sent to custodians failing to submit lists so that a complete set of lists from Southwestern National Monuments may be submitted to the Director.

Staff Research - Observations. Custodian Toulouse, on assignment to the Region Three Office, completed and submitted a report on the "Early Water System at Gran Quivira National Monument"; and a compilation of historical and archeological information on the Salinas Province of New Mexico, with bibliography, as a basis for interpretation.

Headquarters Loan Library. A total of 47 publications were received by the library, consisting of three books, 12 reports, 28 periodicals, and four pamphlets. Four U.S. Geological Survey reports from the Stagner Library were received from Petrified Forest National Monument. A volume composed of the bound 16-page informational leaflets on historical and archeological areas administered by the

National Park Service was received from the Director's Office. Work on accessioning and cataloguing publications received since last April continued. A supply of loan cards was mimeographed, and with the assistance of Mrs. Cecelia Sowers, wife of Relief Ranger Sowers, a start was made toward bringing the library card catalogue up to date. Outline of instructions for field men in accessioning and cataloguing books for a national monument library was commenced.

Southwestern Monuments Association. With the resignation of Mrs. Betty Jackson as Treasurer-bookkeeper, J.A. Vanden Heuval served in that capacity throughout the month. All custodians were requested to make an inventory of Association publications and equipment as of December 31. Ten sets of postcards showing all of the national monuments of the Southwestern group were prepared at the request of Acting Custodian Sowers for sale at Tuzigoot National Monument. After nearly a year of marking time, the project pointing toward the publication of the Association's book "Arizona's National Monuments" was revived by the receipt of a check for $1,000.00 as a gift to the Association.

Status of Archeological Projects. The Custodian at Canyon de Chelly was asked to make an investigation relative to a crack in the ledge supporting White House Ruin and to submit a recommendation relative to technical studies. Because of the lack of an archeologist on the headquarters staff, no ruins stablization projects, other than those supervised by custodians, were undertaken.

Photography - Visual Aids. Twelve negatives made by Relief Ranger Reed and several air views of the White Sands taken by photographers of the Army Air Force were received from White Sands National Monument. Some progress was made in repasting prints on cards of the headquarters photo file through the voluntary assistance of Mrs. Mabel Usrey. Ruins stabilization and other negatives accumulated and no progress was made in keeping up the photograph files because of lack of personnel.

Reportworthy Visitors. Custodian Thomas and Ranger Hendron of Bandelier National Monument, and Curator Stubbs of the Laboratory of Anthropology had business in the interpreters' office.

Reaction of Visitors to the Interpretive Program as Influenced by the War. December travel to the units of the Southwestern National Monuments totaled 10,342 visitors as compared with 9,002 for the month of December, 1942. The increase occurred at Organ Pipe Cactus and Chaco Canyon National Monuments, other areas showing a decrease. Comments by custodians on visitor reaction were, as follows:

Chaco Canyon: Visitors showed great interest in the ruins and the story of their prehistoric inhabitants. The majority expressed a desire to return and spend much more time after the war.

Tonto: Visitors, in general, were more hurried than in the past. Several told what a very real effort they had been required to make in order to visit the monument.

Tumacacori: Many visitors expressed gratification to find that the monument was open to the public and that interpretive service was maintained during wartime. They were enthusiastic in their interest.

Technical Aid to Administrators. Eleven photographs of the Big Bend area were copied and prints made from the copy negatives. The prints were made, specifically, to fill a request from the Director's Office, but the negatives constitute an important addition to the Region Three Headquarters photo file library. Assistance was provided in obtaining source material in study carried on by Mr. Tillotson relative to the discovery and early explorations of the Carlsbad Caverns.

Miscellaneous - Routine - Overhead. Requests for information from the public, and requests for information, supplies, and other items from field men were answered. Personnel notes were compiled and sent to Southwestern National Monuments personnel on military furlough, and some assistance was provided the

editor of the "Region Three News Letter". Two storage cases were transferred to Bandolier National Monument. A group photograph was taken of the Region Three Office staff. All back correspondence was answered, a total of 66 letters being written during the month.

Regional Naturalist Activities. Further efforts were made to integrate interpretive planning with the requirements of the Branch of Plans and Designs; specifically in relation to the interpretive prospectus and the proposed addition to the Rainbow Forest Museum at Petrified Forest National Monument. The headquarters darkroom was given a through overhauling and an inventory of darkroom equipment was taken.

Projects Planned for Next Month. It is planned to make a start on mimeographing supplies of informational leaflets for areas without printed folders. It will be necessary to assist the voluntary librarian in cataloguing technical publications. Unless unforseen obstacles present themselves, printing of the Association's book "Arizona's National Monuments" should be completed. An attempt will be made to bring the photo files up to date. Correspondence and other routine projects will be kept current.

AZTEC RUINS, by Thomas C. Miller, Custodian.

Visitors this month, 127; travel year to date, 930.

General. Travel this month shows a definite drop as compared with last month, but shows an increase over December, 1942. We have had cold and stormy weather much of the month. All roads are open in this vicinity despite heavy snows at higher elevations, and travel has been continuous.

No inspections were made of Hovenweep, Yucca House and Natural Bridges during the month.

Use of Monument Facilities. A total of 127 people entered the monument during the month in 46 cars, coming from the following states; Arizona - 1, California - 10, Colorado - 17, Illinois - 1, Indiana - 2, New Mexico - 76, New York - 2, Oklahoma - 2, Texas - 9, Utah - 2, Washington - 1, Wyoming - 4. Sixty eight visitors, in 20 parties, were shown through both the ruins and the museum. Forty nine permits were sold during the month, bringing a total revenue of $18.84, including tax. Four waivers were issued and 59 people visited the area but did not take advantage of the regular service. Seven members of the Armed Forces were included in our monthly visitors. Guide time for personnel as follows: Custodian Miller - 12¼ hrs; Ranger Mahan - 22 hrs.

Weather. Maximum temperature for the month was 56 degrees on December 5 and a minimum of 9 degrees occured on November 27. Traces of snow fell on November 26, December 9 and December 22. Foggy weather was common during the month. We had 14 clear days, 7 partly cloudy and 9 cloudy days. The total precipitation for the month was .97 inches.

National Park Service Visitors. Stephen Jordan, S & M Foreman, made two visits to the area in connection with his work at Chaco Canyon.

Custodian McKinney, of Arches, was in on December 3 bringing us a load of timber to be used in cribbing of walls on ruins drainage.

Maintenance. It was again necessary to replace flooring in a portion of the quarters due to the action of ground water in causing these floors to rot. The kitchen and hall floors were removed and it was found that most of the plates were completely rotted out and the concrete sub-floor was saturated with water. Adobe partition walls were found to be completely water-soaked. Old fir flooring from Chaco CCC camp was used for the job.

The two old worn-out gas heaters in the quarters were removed during the month and were replaced with heaters received on transfer from Denison Dam Recreational Project. These are a welcome addition to our heating problems.

Leaky spots on the roof of the quarters were given a coat of Zone during the month in preparation for winter weather.

Ruins Drainage. Work has been continued on this project during the month and the third well outside the ruin was completed to a depth of 21 feet, including sump. Temporary power line was strung from Kiva E (called Kiva J in previous reports) to the wells, using odds and ends of wire borrowed from Chaco Canyon, and pumping was started. Trouble was experienced with low voltage due to the length and materials used in the lines. We finally received the wire from Bandelier on December 7 and with the replacing and changing of lines the voltage has been considerably increased. No decrease, of any extent, has been noted in the flow in Kiva E and pumping is carried on each day. Stabilization funds are practically exhausted and our two Navajo's were laid off on December 11. A request has been made for additional funds to carry on this drainage work and we have hopes of controlling this flow in the not too distant future.

BANDELIER, by Chester A. Thomas, Custodian.

Visitors this month, 94; travel year to date, 683.

Weather for the first part of the period was warm and sunny, but on the 9th we had a fairly heavy snow and snow has been coming down thick and fast since then. Total precipitation for the month was 18.7 inches of snow with a moisture content of 1.83 inches. The mercury slipped to 3 below on three different days with a high of only 47 degrees. The heavy snow has necessitated our plowing out the snow to the Otowi Section three times in order to keep in touch with the rest of the world.

During the latter part of November and early December, travel was brisk on Sundays. 94 people in 27 cars came and most were guided thru the ruins. Some from Los Alamos came only to picnic and hike so were not guided. The heavy snows have prevented any visitors from coming in since December 9. With around 15 inches of snow on the ground we probably won't have much travel until March or April.

Activity for the month has been limited mostly to routine maintenance and office work. Four days were spent taking annual inventory of expendable and non-expendable property. Several days were expended gathering data for the Annual Insect Report. The usual annual forestry reports took a week's time. The weather danger data was compiled, averaged and graphed. The Fire Atlas maps were brought up to date. Ranger Hendron spent most of the period working pottery and otherwise compiling data for his report on the archeological work done last summer. Hendron made a 5 day trip to Santa Fe, Bernalillo and Albuquerque to unsnarl a couple of private land problems for a report to the Director.

We were obliged to plow the snow off the road three times to keep up communications with the outside world. The heavy snow caused a great many of our flat roofs to leak. General Mechanic Valencia spent a large part of the month shoveling snow off the roofs and de-icing the canales. Floods of water poured into several buildings. Our roofs are quite picturesque, but that's about as far as they go. The Southwestern Monuments Association lost three valuable books in the floods and quite a bit of government property was damaged.

Aside from Maintenance occasioned by the storm, some fences were repaired and the ventilator housing on the museum was rebuilt. A hot water heater was installed in the Ford Stake truck and several panes of glass were replaced in buildings.

Next month we plan to plow more snow, clean more roofs and make out some more reports. We plan to rent a sander and refinish the floor in the office and carry on some painting, calsomining and general building maintenance.

CANYON DE CHELLY, by M.M. Guillet, Custodian.

Visitors this month, 5; travel year to date, 46.

Weather. The weather has been colder than usual for this time of year as shown by a comparison with last years figures. The minimum temperature was 10 degrees with a maximum of 58. On several days the maximum temperature did not rise above freezing, and the minimum was below 20 degrees on sixteen days. There were only six clear days during the period, and for ten days a low lying fog so obscured the sun that lights were needed during the day. There have been minor snow flurries with .57 inches of moisture, but enough to keep everything nice and muddy.

Administration and Maintenance. Repair work was done on the Whitehouse trail by the custodian and three Navajo laborers. A little over six days were spent working it from top to bottom and it is now in fair condition. The drainage was repaired so that, barring unforseen damage, only a minimum amount of work will be necessary next spring.

Some road repair work was accomplished in order to keep it passable. Four big truckloads of wood were hauled in to bolster our rapidly diminishing supply. The unsightly structure supporting the wiring at the pumphouse was removed and replaced by a less unsightly support.

Patrols were made to the rim area above Mummy House and Spider Rock. There has been some wood hauling from the latter area by the Navajos but little from inside the monument boundary.

During the early part of the period, a patrol was made up the canyons to inspect the effect of rising waters on the recent Soil and Moisture work. That at Antelope house was undamaged, but at White house the channel moved back over toward the revetment and washed out some of the new planting. At present it has moved back toward the center of the wash and indications are that it will remain there until Spring.

Besides routine office work and chores, the Mummy House display and cultural chart were completed and mounted in the Multiplex. (I blush every time I have to mention that thing.)

A trip was made to Gallup to pick up the back pack pumps which were sent over from Bandelier, and to obtain supplies.

Visitors. Other than friendly Navajos who drop in to get warm and pass the time of day, I have had only five visitors. A missionary from Tuba City and his family drove to Whitehouse overlook while I was on the trail. They took a quick "gander" and pulled out before I could reach them. We do, however, extend them our thanks for they kept us from drawing a blank this month.

Public Health. An epidemic of colds and influenza seems to be prevalent in the area, with all members of the custodian's and McSparron's families being afflicted at one time or another.

The custodian broke off one of his front teeth and is at present taking a few days leave while having dental work done.

Projects for Ensuing Month. Inventory of equipment, routine chores and office work, and I will try to complete the multiplex thus making myself the last of its long line of heirs. This along with building a cabinet for dead files and sorting them out, should consume most of the month.

CAPULIN MOUNTAIN, by Homer J. Farr, Custodian.

Visitors this month, 100; travel year to date, 1400.

Only about one hundred visitors to this monument during December this year, as compared to five hundred last year, bringing the total visitors to 1400

for the travel year to date.

Weather; well, the weather has been nothing but weather and very bad at that all thru the month, beginning the latter part of November and is still snowing today. This at present is the worst blizzard we have had this season. The wind is about forty and the snow is drifting plenty. Probably about sixteen inches of snow during the month has fallen, and several nights slightly below zero. With the ban on oil cake and plenty of snow and not much other feed, many cattle men in this vicinity may suffer severely.

Very little has been done to the roads on the monument this month, as they have been under the snow most of the time and most of the attention has been to make an attempt to clear the roads of snow. This has not been very successful for no sooner has the road been opened until another snow would fill it up again. As far as one can observe the wild life in the park is all doing nicely so far. Mr. Porcupine has made his appearance again in numbers and if he does not behave, he will get in trouble.

CASA GRANDE, by A.T. Bicknell, Custodian.

Visitors this month, 677; travel year to date, 2098.

Visitors. During this month we had a few more visitors than during December, 1942 (677 compared to 623); this travel year to date shows a decrease of 19.6%. The number of cars entering the monument for the travel year has decreased 23.8%.

The increase in military travel anticipated last month didn't materialize; almost as soon as Coolidge Air Base was set to open, it closed. Williams Air Field is keeping a skeleton force at the base for guard duty, but there are approximately 30 instead of 1000 men stationed there. Our visitor figures include 71 men of the armed forces, from 23 different stations.

Use of Monument Facilities by the Public. There were 209 guided trips - - 114 to the ruin and 95 through the museum, 106 hours were spent with visitors, and 338 tickets were sold.

Visitors entering the monument without making the ruin trip totaled 172.

Weather. We have had five rains during the report period, totaling .78 inches; eleven days have been partly cloudy or cloudy; on four days there was fog in the early morning. All of which makes us visualize the snow and sleet that must have fallen at higher elevations, and appreciate the warm sunny days which have been in the majority during the month.

NPS Visitors. On December 2, Chief Forester Coffman, Regional Director Tillotson, Assistant Regional Director Richey, and Acting Regional Forester Ratcliff visited the area, making a general inspection trip.

On the 10th Acting Custodian Steel of White Sands brought their ranger patrol pickup over for repairs, spent the night, and returned to the white dunes with Mechanic Stonehocker the next morning.

General. Gene Stonehocker made two trips to White Sands during the month with the semi-trailer; he left on the 4th, returned on the 8th, made another trip on the 11th, returning the evening of the 20th.

A general cleanup was given the monument early in the month. Minor plumbing repairs have been made in the quarters; two sewers were opened; a stove was repaired; a sink and drain board were sanded and refinished with two coats of spar varnish; material for cupboards for Saguaro was assembled. The ramada in the picnic area was repaired.

The custodian is still doing mental gymnastics in finance, trying to make the facts (of expenditures necessary) fit the figures (of money allotted).

Personnel. Custodian Bicknell was on sick leave from the 6th thru the 12th; flu literally knocked him out and the doctor didn't have too much trouble persuading him he didn't feel like working for a few days. Ranger Brewer took 3 days

of sick leave in the middle of the month. Teddy Bachr is on sick leave now, but convalescing nicely. Ranger Cooke and Mechanic Stonehocker so far have escaped - we hope they continue to.

Special Visitors. An Army ambulance delivered 6 convalescent cadets from Williams Field to the ruin on the 19th; we can vouch for these ambulance drivers now - for their quick decisions and ability to get to the front - this one went around the parking area, thru the service gate, thru the residential parking area, and to the very compound walls before we were sure they were here; the idea was evidently to get the convalescents as near the ruin as possible - we admired the consideration shown but persuaded the driver that the walk was no longer from the standard parking area and the cadets, in pajamas and robes, did a complete tour of the ruin and museum and seemed to have a great time.

HAPPY NEW YEAR TO THE OUTFIT.

CHACO CANYON, by Irving McNeil, Jr, Custodian.

Visitors this month, 476; travel year to date, 1103.

There were a total of 476 visitors to the monument who came in 148 cars from the states of Illinois, New Mexico, Oklahoma, Texas, Washington, and Wyoming. Of this number, 18 had time to view the ruins. They formed 6 parties with whom the custodian spent 9 hours and 35 minutes. There was one member of the armed forces. The visitors were very much interested, and expressed a desire to return both to see more for themselves and to bring others. Several were disappointed to find no accomodations here, but hoped there might be some after the war.

There have been more cloudy and partly cloudy days in the last month than there has been for any month in a long time. It makes for good weather in which to work for it is not so cold, but it is mighty muddy. It has snowed five times and rained once for a total precipitation of .54 of an inch. The coldest was 6 above on November 27 and 28 and the 3rd of December, and the warmest was 61 on December 4.

Because of the fine weather, the Soil and Moisture crew has worked very well, and they have hardly missed a day. Thousands of willows have been planted, a number of spiders put in place, and they are at present working on a long, stone revetment which is to prevent water from washing away the bank near the headquarters area.

The roads have been graded several times, but due to the damp weather, they have not stayed in shape very long.

A number of man days have been spent installing the water pump and engine. It would not pump from the level of the old pump. It was necessary to cut through a stone floor, and dig a pit four feet deep so that the thing would pump the pit dug, a revetment had to be made so that the walls would not fall in. Also, a new opening had to be made in the side of the well, and other problems were encountered.

After several days of unsatisfactory radio contact with El Morro National Monument, a new set of batteries was installed which makes the reception better at both ends.

The water pump was installed by Christmas, and a determined effort was made to get the generator going. Several man days were spent on it, but a critical piece was broken so that job was not completed.

Custodian Cal Miller was down on November 27 to get some timber for "cribbing" his well, and believe Chaco, he just about cleaned the place of all available timber.

Also in connection with the water, the tanks were covered and boxes and tops constructed over the valves so that the water could be shut off at the tank with ease in case of necessity.

On December 12, there was the heaviest frost that this custodian has ever seen. It formed about the wires of the radio aerial to the amazing thickness of an inch in diameter. Of course, this brought the aerial down, and it was necessary to take down one of the towers to get it back up.

To the joy of the custodian, coyotes are again occasionally heard in the canyon, quail are often seen as are rabbits; but to his sorrow, a trapper has come into the district again this winter. Not to wish the man bad luck, but it is hoped that he will not catch many coyotes near here this winter!

The first few days of winter have been fine working days. It is hoped that the generator will be installed and the odds and ends of pump engine job will be cleaned up by next writing.

CHIRICAHUA, by Jesse G. Marble, Grader Operator.

Visitors this month, 96; travel year to date, 1020.

General. It is with great sorrow that we write the Chiricahua monthly report for December, one of the many duties which Custodian Fish has so ably done for many years. Frank crossed the Great Divide at 5:30 PM, December 29, after about a month of illness. The deepest sympathies of his many friends, both in and out of the Service, goes out to his wife, Corabeth and their daughters.

Weather. Winter arrived this month, extremely cold, with hard freezing temperature at night. While we did not have a "White Christmas", 4 inches of snow fell the following day.

Visitors. Of the 96 visitors this month, 86 came in 16 cars, the other 10 made the trip on horseback in three parties from the Faraway Ranch. Included in the 86 were 9 men from the armed forces, which brings the total to 514 for the travel year.

Cold weather and snow is no doubt responsible for the decrease in travel for this month.

Maintenance. Consisted of road grading; gutter cleaning; shoveling snow from the doors and paths around the buildings; also the electric light plant was overhauled.

N.P.S. Visitors. Al Bicknell of Casa Grande National Monument arrived at 4:30 PM the 29th to help me get some of the reports out. We worked until about 9:00 PM, when the telephone call was received, bringing us the sad news of Frank's death. We left immediately for Douglas to see if we could be of any assistance to Corabeth. Mr. Bicknell notified Mr. Richey by phone. We returned to the monument about 4:30 AM.

Due to our reports being late, we did not take time to figure the percentages on the Monthly Travel Report Form 10-157.

EL MORRO, by George W. Baxter, Custodian.

Visitors this month, 5; travel year to date, 66.

General. We have had very few visitors and there is very little to report for the month. Roads are still passable there being only a few light snowfalls during the month. If we had Santa Fe's foot of snow, we might go skiing, but at present there are only a few scattered patches of snow on the ground here.

Weather Statistics. Maximum temperatures 57 on December 18, minimum 6 on December 3. Precipitation .44 inch.

Use of Monument Facilities by the Public. Five visitors arrived during the month in 2 cars, one from Colorado and one from Arkansas. Total guide time 2 hours, all by the custodian.

Acquisitions. Received a new recapped tire and a new tube from the Procurement Division. I won't be afraid to venture out over these malpai rocks now that I have a spare tire.

Maintenance, Improvements and New Construction. Office work has taken up much time this month.

Made several patrols around boundary fence.

Continued work on cabin. Put in part of sub-floor and put up a stove so I can keep the cabin warm enough to work in. Put screens on windows to keep the woodpeckers from going through the windows.

Finished moving equipment out of garage into storage room so I could get the pickup in the garage for the winter.

Took the tires off the dump truck and stored them for the winter where they won't be exposed to the weather.

Spent considerable time starting the battery charger, trying to give the radio batteries a full charge. Then sent the charger to Aztec to have it worked over.

Projects for Ensuing Month. Still hope to make a trip to Grants and bring in road signs to refinish.

Continue work on cabin.

If it gets too cold for outside work I always have plenty to do in the office.

GRAN QUIVIRA, by Joe H. Toulouse, Custodian.

Visitors this month, 15; travel year to date, 60.

Routine and Continuing Projects. With the exception of three days, this entire month has been spent on special assignment in the Region Three Office. Services have been devoted to the handling of personnel matters since the illness of Clerk Jackson. Matters have been kept current. Approximately one man day during this period was used in the final preparation of the reports requested by the Director on the land problems at Gran Quivira National Monument, the report was submitted. Several man-days were devoted to the completing of the Aboriginal Water systems at Gran Quivira National Monument report and the History of the Salinas report, both of which, after ever so long a time have been completed, and copies have been submitted to the Director and the Regional Office. A small piece of time has been devoted to helping Mrs. Dodge in the Monument's Library.

Acquisitions. "Early Water Systems at Gran Quivira National Monument" and "History of the Salinas Province with a Classified Bibliography" by this custodian, and Bulletin 139 of the Bureau of American Ethnology.

Miscellaneous. During the three days at Gran Quivira, monument patrol was accomplished and everything is in good order, fire extinguisher of the soda and acid type was recharged, and government pickup was serviced.

Continuing Projects. Indefinite category this, as this custodian expects to be on special assignment until some decision is reached concerning the filling of the Personnel Clerk's position is made, with a consequent slack up on time at Gran Quivira.

MONTEZUMA CASTLE, by Homer F. Hastings, Custodian.

Visitors this month, 121, travel year to date, 497.

General. Our report is usually submitted on the 26th of the month, but this one is being prepared on the 24th because there will be no mail service for the next two days.

It is good that we have passed the shortest day in the year for we have been having to find our way to work in the half light of early dawn. On December 23 a radio report from KTAR, Phoenix, indicated that Governor Osborn had proclaimed that beginning on January 1, 1944 Arizona would be placed on Pacific Time which in effect would return us to prewar time. The odd thing about it is that Arizonians who set their clocks back at 12:00 midnight, December 31 will get to celebrate the New Year twice.

Weather. This month has brought a lot of precipitation with a total of 2.29 inches for the report month. The maximum temperature was 75 degrees and the minimum 21 degrees. The mean maximum was 62.92 degrees, the mean minimum, 29.78 degrees.

Administration. Considerable time has been spent instructing Ranger Clark in office details. All reports and correspondence have been kept current. We have submitted reports on our telephone extension, Soil and Moisture planting, Form 57, Application for Federal Employment, and the annual report of water usage by the Castle Store.

We completed the check on the Index of Physical Plant received from the Regional office and made a complete copy for this office.

On November 28 we had a meeting of both families living on the monument to learn the location of all fire extinguishers and electrical switches and to discuss various problems.

On December 16 Ranger Reed sent for his car which was in storage here.

Relief was rendered Ranger Sowers at Tuzigoot National Monument on December 1,8, and 15.

The Burris Furniture Store in Prescott has an attractive calendar for 1944 featuring Montezuma Castle.

Maintenance, Improvements, and New Construction. The propane system for Residence No. 2 failed shortly after a new cylinder of gas was installed. It is believed the trouble was caused by moisture freezing in the regulator. When checking the system a small leak was found and corrected.

The water meter was removed from the line to the Castle Store to protect it from freezing.

Repair of the road to the picnic grounds was completed.

Gravel was placed under the canale drains on the north side of the garage to promote drainage away from the wall.

We washed and polished the pick-up and repaired the tail light. The front wheels were repacked and their alignment checked.

Our new telephone extension shorted out soon after it was installed and more work had to be done to insulate it from the barbed wire fence.

Use of Monument Facilities by the Public. Total cars, 32; Arizona cars, 16; total states represented, 14. Total visitors, 121; number of tickets sold, 38; revenue received $10.88; members of the armed forces admitted free, 12; children admitted free, 6; tax but no tickets, 8.

Guide Service. Total contact hours, 31.50; Hastings, 9.25; Clark, 22.25. Ruins trips, 18 for 64 visitors; museum parties, 25 for 120 visitors. Information service was rendered 12 visitors who did not come into the museum or climb into the ruins. There was one picnic party for five people.

Visitor Reaction to the Interpretive Program. One of the most conspicuous exhibits in our museum is the "natural" mummy of a child about three and one-half years old. It is amusing to hear visitors who have been here before tell their friends it is petrified, ossified, "dehydrated", etc.

Projects for Ensuing Month. We plan to patrol the monument boundary, take the annual inventory, level and fill areas around the residences to develop drainage, and adjust ourselves to Pacific Time while we try to believe we are not being classed with the Californians.

NAVAJO, by Bill Wilson, Custodian.

Visitors this month, 0; travel year to date, 7.

Miscellaneous. We were away on leave most of the month leaving Pipe Line to look after things. We returned to find that there had been several inches of snow. There was an accumulation of 1.5 inches moisture in the rain gauge, and 6.5 inches snow on the ground at the weather station.

USI 13854 was left at the Navajo Service Consolidated Garage in Tuba City to be overhauled. The four new recaps were picked up at the freight office and stored at Cheshire's garage until our return. Lava Jack was put on winter pasture at Tuba City for awhile.

Projects. The files to be overhauled and obsolete material stored. Our small library of books and pamphlets to be catalogued. Expect to put out two bird feeding stations. Right now the Woodhouse Jays, Oregon Juncos and Mountain Chickadees are eating suet off the window sills. As weather permits, expect to enlarge the corral and install the gas pump. The usual maintenance will be carried on and trips made for and with the mail roads permitting.

ORGAN PIPE CACTUS, by William R. Supernaugh, Custodian.

Visitors this month, 6369; travel year to date, 17286.

Travel. With the completion of the oil on our road and the Christmas season, travel showed a nice increase this month. Many people made trips to Mexico to do their Christmas shopping due to scarcities in the United States. It is expected that the coming months will see a drop in travel as gasoline is getting hard to get in Mexico. The amount for export has been sharply cut through this area so a great many going to fill up the old gas tanks will be disappointed.

General. Occasional rains throughout the month have been a great help in settling dust and bringing our desert back to life. This spring should be another good flower year for Organ Pipe. Total rainfall for 1943 at the Ajo station was 10.5 inches, all falling since the latter part of July.

A project was started this month with the U.S. Weather Bureau to establish a cooperative observation station at the monument headquarters so that we may have our own records for there is quite a variation in rainfall between the border and Ajo.

The flood gate project was started with one man and is going slowly. Labor here is almost an impossibility until after January 6, when the road contractor will complete his construction.

We have been without a road maintenance man this month but I was lucky to find a good man in Ajo who will take the job and we hope to have him on the job January 3.

The approach road between the state highway and the monument is now complete except for oil, which will be started this coming week. It is planned to have this finished and open for travel January 6.

Park Service Visitors. Official visitors this month were Regional Director Willotson, Assistant Regional Director Richey, Chief of Forestry Coffman, and Regional Forester Ratcliff.

Projects for the Coming Month. Work will be carried as far as possible on the flood gates, and work on the headquarters site. The Soil and Moisture projects of fencing and tanks will be started as soon as approval comes through.

SAGUARO, by John Peavy, Custodian.

Visitors this month, 328; travel year to date, 942.

Travel.

Visitors this month	- 328.	Guide time; 18 hrs. 25 min.
Cars	- 100	J. Peavy; 12 hrs. 10 min.
Instate	- 48	M. Peavy; 6 hrs. 15 min.
Outstate	- 52	
Men in uniform	- 35	

Weather. We have had sunny dry weather most of the month. However, we had a light rain at all elevations on the night of the 21st, and an all-day rain with snow at the higher elevations on the 26th.

N.P.S. Visitors. Acting Custodian Paul Steel and Gene Stonehocker were visitors on the 11th, while delivering a gas pump. I escorted Paul and Gene through the cactus area.

Inspection and Investigations. Regional Director Tillotson, Chief Forester Coffman, Ass't. Regional Director Richey, and Regional Forester Ratcliff visited the cactus area on the afternoon of November 30, and inspected the B.P.I. cooperative study under the guidance of Drs. Mielke, and Chief of Division of Forest Pathology Waggener. The progress of the study was discussed and also the problems of the future.

The same party, with the exception of Dr. Mielke, left the X-9 Ranch on the morning of December 1, and rode to Manning Camp to inspect the extent of fire kill which has taken place due to Saguaro Fire #2 and also to discuss forestry problems concerning fire protection of this area. We inspected the pack camp site on Chimminoa Creek during the trip up. We arrived at Manning at 6:00 P.M. We left the camp at 9:00 A.M. the next day and rode to Spud Rock Lookout, hence to Mica Mountain Tower and various secondary lookouts. We had lunch at the junction of the Spud Rock Ranger Station and Happy Valley Saddle trails. From there we rode to Happy Valley Saddle, arriving at 3:30 P.M. We made a brief inspection of the trail camp site there and then continued to the Taylor Ranch via the Canyon Diablo trail. We arrived at the Taylor Ranch at 6:00 P.M.

Roads and Trails. I dragged the Loop Road on the tenth. At present it is slightly rough, but in fair shape.

New Equipment and Supplies. I received shipment of stoves, beds, tents, and saddles from Rocky Mountain Nat'l. Park. This equipment is to be used in the coming trails project. I also received 6 rolls of #9 wire. Gene hauled 90 telephone poles and stubs and a 500 gallon tank and gas pump. I also received an oil pump and tank.

Tucson Office. Two days were spent in the Tucson office this month working on the land status report.

Equipment. I had considerable trouble with the dump truck this month. I overhauled the generator, fuel pump and cleaned the gas system. It now is in fair running condition.

Projects Started but not Completed. I excavated the pit for the 500 gallon gas tank, but as yet have not installed it due to the need of a check valve and fittings and I will have to alter the tank slightly before the pump will work.

Closing. No changes in visitor reactions were noted this month. Less army personnel were out here this month. The Bar AA ranch is for sale.

In closing we would like to extend the season's greetings to all NPS personnel and their families.

SUNSET CRATER, by Philip F. Van Cleave, in charge.

No travel data available since the entrance road has been snow-blocked since about December eighth. No trips were made to the area during the month.

TONTO, by E.C. Gipe, Custodian.

Visitors this month, 184; travel year to date, 557.

Visitors. A total of 184 visitors came to this area in 56 cars. States represented, 15. Cars instate, 23; outstate, 33. Members of the Armed Forces, 15. Ruins trips, 32, with 119 people; museum groups, 48, with 156 people. Informational contacts, 23.

Personnel Time. Custodian Gipe, 60.6 hours.

Visitor Reaction. Visitors have seemed more hurried than last month. A number have just driven up to see what was up here, but said they did not have time to even get out, as they had to get to a certain place at a certain time. Many have told of making real sacrifices to get here.

Weather. Several good rains this month have resulted in greatly improved range conditions. Most of it has been of the slow soaking kind, so has done little damage to the road and trails.

General. We moved from the tents to the temporary cabin on the fourth and fifth of this month. Have not been able to get the refrigerator over yet, as have not had enough help here at one time. Have taken one tent down and will get the other one down as soon as I get the refrigerator out. It surely is a relief to be able to keep our possessions and ourselves dry during a rain. Considerable cleaning up has been done around the house, the cesspool completed except for the cover, also drainboards and a bathroom door completed. Several loads of wood have been hauled and prepared for stove and fireplace. One trip was made to Globe to get gasoline and Blazo for the lanterns.

Official Visitors. Regional Director Tillotson, Assistant Regional Director Richey and Acting Regional Forester Ratcliff, all coming in the afternoon of the fourth, and morning of the fifth. What a pleasure that was; of course Assistant Regional Director Richey is well known to us, but it was our first meeting with Regional Director Tillotson and Regional Forester Ratcliff. They proved to be folks whom you wish lived near and could drop in often. Much monument business was speedily and satisfactorily completed.

Forest Ecologist, Kenneth W. Parker, also was here on the morning of the fourth, and told us a great deal about the different growths in the area. He promised to spend more time here if possible.

Another visitor of interest was Jack Williams of KOY in Phoenix. He had never been here before and was much impressed with the various attractions. He told us the trip was made especially to get material for some future broadcast.

Wildlife. We still have the same varities of birds and animals as last month, but saw some javelinas for the first time this fall, a large one leaving the drove and dashing across the entrance road in front of the truck.

Maintenance. Much ditching has been done on the hillside back of the house to take care of storm water.

Considerable water pipe has been covered and wrapped, to prevent freezing if possible. The rest of the sewer pipe has been put in down to the cesspool, and many small jobs around the house completed.

Projects for the Ensuing Month. Taking down the second tent, moving the refrigerator and gas tanks to the new house, more cleaning up outside, and as much work on cupboards as is possible.

TUMACACORI, by Louis R. Caywood, Custodian.

Visitors this month, 394; travel year to date, 1126.

Visitors. Three hundred ninety four visitors were conducted through the mission ruins and museum in comparison to 389 for the same month last year. This slight increase is encouraging. Visitor reaction is extremely enthusiastic over the manner in which the mission ruins and museum are maintained and kept open to the public in spite of war conditions. The bouquets received daily over the museum layout and exhibits is gratifying to Park Service ears.

Following is the total time given to these visitors by the custodian and ranger:

Custodian Caywood . . . . . 37 hours, 5 minutes.
Ranger Mattison . . . . . 39 hours, 15 minutes.

Maintenance. Weed cutting was finally brought to a close this month. Although the entire monument was not cleared the areas most used and seen by visitors were hoed, raked and the weeds hauled away and burned. The remainder of the sand and gravel washed in by last summers floods was finally hauled away to the adobe pit. Wood hauling and cutting continued throughout the month.

Museum. Adjustments were made to museum case lights and diorama lights. Burned out bulbs were replaced as usual. The three way switches for the museum rooms are in very bad order and it is hoped that switches ordered by the Region Three office will soon arrive so that replacements may be made. When travel is at its peak, as it now is, it is rather confusing to all concerned to have the lights fail to go on because of burned out switch points.

Office. Work has been going on replacing the old file folders with green angle folders received from Region Three Headquarters some time ago. At the same time the files are being brought up to date. It is noted that memoranda from the Chicago offices are now being marked with the appropriate file number. It is believed that this one of the most revolutionary advancements made in office procedure for many a day. It is hoped that the Region Three office will follow in the footsteps of the Director's Office in this respect. This idea was advanced by some of the custodians at the last custodian's conference but no action was taken.

Continuing Projects. Wood cutting and hauling will be continued during the next month. Work on museum case light repairs will be carried on as time permits.

TUZIGOOT, by Ted C. Sowers, Acting Custodian.

Visitors this month, 140; travel year to date, 722.

Weather. Winter came to Tuzigoot in the form of eight cold, rainy days Without a weather station, can only say considerable moisture fell on the 6,7, 9,12,13,18,21 and 22 of December. The hilltop was also buffeted by gusty winds during the month. At the present writing, we are enjoying delightful weather with Christmas snow visible high on the mountains behind Jerome.

Travel. Visitors are becoming increasingly less noticeable here at Tuzigoot In spite of being so close to Clarkdale and the main highway, mostly local people visit the monument. Of the 140 visitors this month, 84 were instate and 56 were outstate visitors. Of the 44 cars bringing these people, 25 were in-state and 19 outstate cars. Ten visitors came by foot; five of these were Hopi Indians who were "visiting the home of their ancestors". Twenty-five members of the Armed Forces were counted during the month.

Guide and Contact Service. A total of 47 hours and 52 minutes were spent

with visitors. Museum time, 23 hours, 27 minutes; Field time, 24 hours, 28 minutes.

Personnel Time. Acting Custodian Sowers, 47 hours, 52 minutes; Custodian Hastings, 0; Ranger Clark, 0. Custodian Hastings relieved Tuzigoot on December 15; Ranger Clark, December 1 and 8. Both drew blanks on their relief days.

National Park Service Visitors. Custodian and Mrs. H.F. Hastings.

Wildlife. Due to the many quail on the monument, hunters have been out frequently in this vicinity. Found two hunters within the boundary and invited them to go elsewhere. They had no birds in their possession.

Projects. In spite of chilly weather, considerable outside work was accomplished: cleaned all drains and run-offs around headquarter buildings; rearranged and stacked all usable lumber behind museum building saving all scraps for use in fireplaces at Montezuma Castle; hauled gravel and spread it around headquarters where low spots collected pools of water after rains (this also improved headquarters appearance a great deal); leaks appeared in roof over garage, museum porch and residence back-porch, these were repaired and coated with Zone roofing material; minor road repairs were done on approach road, parking area and service area; gave garage and museum doors a coating of linseed oil which was promptly soaked up as they were very dry; also treated the monument signs with linseed oil and will continue this work where this added protection is needed; removed more rock and cement from the lower path which was dumped there after tearing down the reconstructed unit; and checked all drains in ruins which are now working properly.

Inside work consisted of disposing of old magazines and papers which constituted a fire hazard in the garage storeroom; rearranged museum storeroom making more adequate space; rerolled garden hose for readiness in case of fires and can now be gotten at for any emergency; placed all two-fold leaflets of Tuzigoot and other monuments in bookcase for better protection along with publications and library books; accomplished more work on photographic file; worked on files - inserting new green anglo folders as the old folders were badly worn, and this will put the filing system in A-1 condition for the next custodian. Also made inventory on all SWNHA publications and received a stock of publications which had been sold out. Received photographs from Associate Naturalist Dodge on typical views of each monument which will be used in making 8 & 10 inch pen and ink drawings for future use by National Park Service. Did routine office work during month as well as working on memorandum to headquarters concerning the outside service utilities which consists here of the troublesome water line; also filled out Form 57 for Director and headquarters.

Fuel oil was ordered for the museum furnace and for use in the residence; gasoline was obtained for the 4th quarter for use in pickup; and 3 tanks of propane gas were received from Gallup.

The water line has been checked many times during the month, and to date no new breaks have occurred. This is as nice a Christmas present as I could ask for and receive! Clamps were obtained from Bandelier National Monument for use on future breaks. Adjustments were made with the water company in regards to the amount used and charges were accordingly made.

Work on the government pickup consisted of: having the motor flushed and minor repair work done which puts pickup in better running condition; tires were also inspected; outside motor cleaned and body bolts tightened; wheels cleaned and given two coats black enamel; and finally, painted box on pickup which was badly rusted. The pickup is now in good condition throughout.

The following is a helpful hint to those interested: have found a product which thoroughly and effectively cleans all soot from the Duo-Therm oil heater in the residence - namely, "Red Devil", product of Marine Electrolysis Eliminator Corp.

For all those reading this report, we wish them a very merry Christmas and a Happy and Victorious New Year.

WALNUT CANYON, by Paul Beaubien, Custodian.

Visitors this month, 122; travel year to date, 970.

General. Five heavy snow storms already this month have about stopped our visitors for two or three more months. As this is being written, I'm snowed in for the third time.

Visitors. Of the 122 visitors, 42 were not contacted and it is estimated that 25 made the ruins trip unattended. Hours spent in interpretive contacts are as follows: Beaubien, 11.

Activities. Six days of annual leave were taken during the month. A lot of time was spent shoveling out roads and trails after each snow storm. Also shoveled on roofs as they seem to leak almost as much as they did before I repaired them last summer. The inventory of CCC materials was completed. The project of placing doors on the open shelves of workroom was completed. A hand rail was installed in the basement stairway of custodian's residence.

Changing Trends in Public Use etc. None were observed.

Projects for Ensuing Month. Mostly the routine jobs. Will try to straighten out the worst spots in my filing system, and do some work on nature trail signs.

WHITE SANDS, by Paul Steel, Ranger.

Visitors this month, 993; travel year to date, 5477.

This month records the lowest number of visitors since accurate records have been kept here. Although some of the decrease can be attributed to bad weather, the fact remains that people are curtailing their driving more each month. Army personnel has been changing rapidly in this area so we may have better Army Use next month than experienced this period. Armed Forces Use, like total visitors, is the lowest since March, 1941. Heavy rains forced us to close the Sands entrance road a total of five days including one Sunday during the month.

This section of New Mexico has been quite wet this month. A total rainfall of 2.63 inches has helped conditions a great deal, particularly the ranchers. Our roads have been too muddy to work properly, but present sunshine and light winds should dry them out in a few more days. Maximum temperature of the month was 78 degrees on November 21, and the minimum of 17 degrees was recorded on December 5 and again on the 18th. Cloudy damp days have held our maximum under 60 degrees most of the month.

Regional Director Tillotson, Chief of Forestry Coffman, and Acting Regional Forester Ratcliff were here the morning of the 23rd on a brief inspection. We enjoyed their visit very much but wish they could have spent more time with us.

Assistant Regional Director Richey arrived here in time to be guest speaker at the memorial picnic given in honor of Tom Charles November 21. This event was reported last month. Chuck stayed until the 23rd leaving with the Regional Director. We were able to go over many maintenance and fiscal problems with Chuck and profited a great deal from his suggestions. General Mechanic Stonehocker made a flying trip in on December 5 and picked up a load of telephone poles and gasoline tank for Saguaro National Monument. He returned for another load on the 12th and spent several days while here checking over all equipment and putting the diesel electric plant up in first class shape again.

Ranger Steel took the pickup, I-13862 to Coolidge for needed repairs on the 9th, returning with Gene on his return trip. Two trips were made during the month to El Paso getting parts for the Caterpillar Diesel.

As always, fewer visitors results in more maintenance work being done. Several projects were completed including new cribbing in the water well in the edge of the sands. Due to adverse weather we were unable to install signs in the sands proper as planned last month. The coming month, weather permitting, will see our roads in first class shape again and the hall and office painted in the administration building. Much wall repair is needed outside but will probably have to wait until the heavy frosts are over.

Your office has been informed of Custodian Faris' return December 18 from Los Angeles. Johnvill's operation was a howling success from all we hear and he is even sporting a new set of teeth. All were glad to see him home again and sincerely hope he is through with the medics for a long time. Ranger Knobenshue's wife, Jane, had quite a siege with the flu last week but is up and around again.

The Acting Custodian has had a lot of fun and several headaches. It will be a pleasure to see the next report come to you signed by "Johnvill Faris".

WUPATKI, by Philip Van Cleave, Custodian.

Visitors this month, 21; travel year to date, 93.

Weather. Heavy snowfall on the eigth of this month is largely responsible for the low visitor use, no visitor having been in the area since that time. The entrance road was not opened until the thirteenth at which time a trip to Flagstaff was made to contract for fuel oil delivery at the earliest possible date. The snowfall of this first storm was greater than all last winter's fall. Since then we have had two additional but lesser storms which have kept snow on the ground continuously for the past eighteen days. Wupatki Basin was more or less a focal point for this first storm which came out of the north and gave us better "coverage" than that received in Flagstaff which is quite unusual.

Activities. A considerable time was spent in the first week of the month in hauling wood from the Sunset Crater Road for stove fuel. Several clear days since then have been spent in cutting and cording for future use. A goodsized pile of wood from my wood-pile at the old cook-shack site was stolen by some fore-sighted Navajo just prior to the snow and chances of catching the culprit seem pretty remote at this time.

The snow has brought up an old but still serious problem once again. A new leak in the roof and walls of the dinette has appeared. Snow has been kept off the roof as much as possible but at times there has been a considerable puddle on the floor. Several other lesser leaks are again obvious by moisture on the walls and consequent flaking off of the paint.

Two extra trips to the highway were made during the month in order to keep the entrance road passable. The pickup was stuck for about four hours on my first attempt to get out to the mail box, but now the road is very nearly clear.

Contact was made with the foreman of Spider-web Ranch on the fifteenth. The permittee's cattle are now ranging on the monument in the designated area. The burrows which were of such bother during the summer months were seen near the Citadel last week for the first time in several months.

The line from the pump house was frozen despite draining, so the low section was dug-out, thawed and raised. No more trouble from that source is anticipated.

A new generator was installed in the pickup to replace the old one which had become costly from the standpoint of non-successful repairs. A new ammeter also was put in at the same time because the old unit was in the habit of sticking on "charge" while the battery was running down.

Repairs to the fill-road behind the house were made necessary on the ninth by the local trader's accident in sliding off the road and having to be "dug" out. The process entailed a cut nearly across the width of the road because of the uncompacted nature of the lower fill in the road.

Activities for Next Month. It is hoped that the weather will clear enough to allow of repair work on the roof to stop leaks through the walls. This will be largely reflashing of the edge of the roof as far as is now known. More wood will soon be needed, though it may prove necessary to get this through the local saw-mill if the snow stays on the upper timberland.

PERSONNEL NOTES

Through the combined efforts of Ray Mattison, Ed Alberts and Ted Sowers; Charlie and Frances Sharp have been located and both have written in. Frances addresses her letter to the SWNM-HCWPs, and it follows:

"The arrival of your news letters have been very welcome ever since we joined up with Southwestern Monuments. Where else can one learn such news? Especially enjoyed the Region Three News Letter with the picture of the staff. I am ashamed of myself for not helping out.

"We have been on furlough from the Park Service now for over a year, and have traveled some since then. Charles joined the Civilian Pilot Training Program at Globe, Arizona. After completing his Primary Flight course there we spent six months in Nebraska, getting acquainted with our folks again and overcoming the habit of shaking scorpions out of our shoes. I am also happy about the absence of tarantulas.

"Last July Charles was called to active duty and spent six weeks in basic training at Kearns, Salt Lake City. From there he went to Sunnyside, Washington, for Secondary Flight course. All of this time I was working as timekeeper at the Elastic Stop Nut Factory in Lincoln, Nebraska.

"The next move on this great checkerboard was to Coeur d'Alene, Idaho. We learned that I could be with Charles part of the time so I moved north with my two little suitcases. And now through some terrible oversight somewhere, the Army has moved him to the Lincoln Air Base, my old home town. We are pretty sure of being here for the next three months.

"We miss our friends in the Southwest and can remember some good old times as the Relief Ranger Outfit. Wonder if Johnnie Clark has any good eating grass at Montezuma Castle. Would like to know the address of Melvin and Kay Denniston, seasonal ranger at White Sands a couple of summers ago". (Can you supply that address, Johnwill? Ed.)

The Sharp's address is 5735 St. Paul Street, Lincoln, Nebraska, for any of you SWNM folk who would like to write.

A Christmas card mailed by Polly Tovrea from the Canal Zone in November reached us about January 15. Polly says that Tov. was then a Lieutenant in

the CB's at Camp Peary, and that she was planning to return to Prescott, Arizona, as soon as the outfit she was working for could find someone to take her place. We are taking a chance and mailing her copy of PERSONNEL NOTES to Prescott.

From Colonel Boles' report of travel to Carlsbad Caverns for the first two weeks in January we learn that among the report worthy visitors were Hub and Ruby Chase. Hub, you know, was the man that took the Colonel's opinion of the CCC out of the red and put it in the black.

From Meredith Guillet's monthly report we learn that he broke off a front tooth, but he leaves us in the dark as to just how this was accomplished. He doesn't explain whether the pinyon nuts or the Navajos of Canyon de Chelly are the hardest.

Cecelia Sowers came to the rescue again this month and cut stencils for the monthly report. With the great shortage of stenographic assistance at Headquarters, that is one of the things that just can't be done here. Let's all give Cecelia a great big hand! She is living up to the old time traditions of a SWNM HCWP.

Earl Jackson and family are moving back to the sunny southland while Earl recuperates. During the process of packing and moving, Earl is at the St. Joseph's Sanitorium in Albuquerque but will leave soon for Tucson where he will undergo an operation. After that, if present plans go through, he will be at Casa Grande National Monument. We are sure that nothing would please Earl more than letters from the field, and this solicits some for him.

Bates Wilson writes in from Camp Endicott to report that he is in a "Special Detachment" and that he thinks that he will be coming West in the not too far distant future, as advanced training is almost finished. Following is an excerpt from his letter to Chuck: "Well, my fran, theese ees the fonny place for the trabajo. I been having the rating of carpintero, class primero, all the time an jet I don juse the saw or poot the nail with the hammer seence I been in dis place, myself. When I am not walking around with the gon (which ees no goud, for there is no place to poot the chells and even if there was a place to poot the chells eet would still be no goud because the barrel she ron haff way on my choulder), I am a swab the deck or doing the K.P. (theese is not a baile), and right theese minute I am pooting the coal for the furnace. Que carpintero! I tell you no foolish, theese place has got the front in the back. The fonny part ees I am not a carpintero, class primero, anyhow, as you well know."

Natt Dodge recently gave an illustrated talk for some of the patients at Bruns Military Hospital in Santa Fe, under auspices of the Red Cross. After the talk one of the Red Cross matrons asked him if he would be willing to come out again and present a program for the boys in the "lock ward" (mental cases). "You'd feel right at home with those boys", she told him enthusiastically.

In requesting some surplus equipment transferred to Chiricahua, Al Bicknell justified the need as follows, "Chiricahua has no vices whatever, and if possible one should be transferred there".

In a "V-Mail" letter postmarked "Island X", Jim Eden writes as follows: "By way of diversion we have been having a few earthquakes lately, but nothing serious. Tell the boys that all the stuff about beautiful natives is a bunch of hokum. The only ones I have seen are as black as the ace of spades, and ugly enough to haunt a house." Of course Jim knows that PERSONNEL NOTES goes to Judy, so perhaps that last sentence is just a smoke screen, eh Judy?

Like Bates Wilson, Charlie Steen thinks the army sometimes applies titles somewhat promiscuously. Steen reports that he is now a forester and that after taking lessons for three mornings he is also listed as a qualified sound projector operator, and draftsman. Ratcliff, Dodge, and Cornell may find themselves all out of a job when Steen returns.

Ted Sowers reports a letter received from Virginia Cotter, now in Pennsylvania, that her mother has been very sick and that her father is now seriously ill. Seems as if Virginia is getting more than her share. Jack, also, is getting double measure having drawn guard duty Christmas Day and K.P. on New Years. Jack has now completed half of his basic training. Ted asks, also, if he is supposed to count the milkman as a monument visitor, and that he will have to multiply him a number of times if he is going to show an increase anything like Mac's at Chaco.

From Leonard Heaton's monthly report we learn that Mrs. Heaton has been very ill and has just returned home from the hospital after having undergone a major operation. The Heatons can have more things happen to them and yet always come up smiling!

George Sholly is in the army at the Presidio in San Francisco. He He does not know where he will go from there.

JANUARY, 1944 DECEMBER 1943

Station	Dec. 1943	1944 Travel Yr. to date	Dec. 1942	1943 Travel Yr. to date	Increase or Decrease	% Incr. or Decrease	1944 Fiscal Yr. to date	1943 Fiscal Yr. to date	Incr. or Decr.	Incr. or Decr.
Arches	75	175	48	230	-55	-23.91	441	601	-160	-26.62
Capulin Mountain	100	1400	500	2000	-600	-30.0	8900	14300	-5400	-37.76
Chiricahua	96	1020	69	796	+224	+28.14	2245	4040	-1795	-44.43
Natural Bridges	0*	2	0	47*	-45	-95.74	88	221	-133	-60.18
Organ Pipe Cactus	6369	17286	3668	9535	+7751	+81.29	32117	15625	+16492	+105.54
Rainbow Bridge	0	0*	0*	0*	0	0	10	20	-10	-50.0
Saguaro	328	942	356	1261	-319	-25.29	1739	2057	-318	-15.46
Sunset Crater	0	424	60	1007	-582	-57.79	1838	4526	-2688	-59.39
White Sands	993	5477	2335	8767	-3290	-37.52	20301	27424	-7123	-25.97
Total Biol.-Geol.	7961	26726	7115	23643						
Aztec Ruins	127	930	105	956	-26	-2.72	3262	4410	-1148	-26.03
Bandelier	94	683	36	1089	-406	-37.28	2614	3123	-509	-16.29
Canyon de Chelly	5	46	5	126	-80	-63.49	178	700	-522	-74.57
Casa Grande	677	2098	623	2610	-512	-19.61	3453	4483	-1030	-22.97
Chaco Canyon	476	1103	2	83	+1020	+1229.00	1771	349	+1422	+407.45
El Morro	5	66	12	85	-19	-22.35	203	329	-126	-38.29
Gila Cliff Dwellings	0*	0	0*	10*	-10	-100	28	125	-97	-77.60
Gran Quivira	15	60	25	150	-90	-60	213	552	-339	-61.41
Hovenweep	0*	0*	0*	18*	-18	-100	18	92	-74	-80.43
Montezuma Castle	121	497	100	631	-134	-21.23	1525	2142	-617	-28.80
Navajo	0*	7*	0*	16	-9	-56.25	32	53	-21	-39.62
Tonto	184	557	163	871	-314	-36.05	1076	1523	-447	-29.35
Tumacacori	394	1126	389	1393	-267	-19.16	2081	2705	-624	-23.06
Tuzigoot	140	772	182	1149	-427	-37.17	1645	2747	-1102	-40.11
Walnut Canyon	122	970	191	1469	-499	-33.97	2927	5497	-2570	-46.75
Wupatki	21	93	54	207	-114	-55.07	288	620	-332	-53.54
Yucca House	0*	4	0*	10*	-6	-60	21	55	-34	-61.82
Total Hist.-Arch.	2381	8962	1887	10873						
Grand Total for Dec.	10342	35688	9002	34516	+1172	+3.39	89014	98241	-9227	-9.39
Last Month	12384	25346	13087	25514	-168	-0.65	78672	89318	-10646	-11.92

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